

FIG. 1

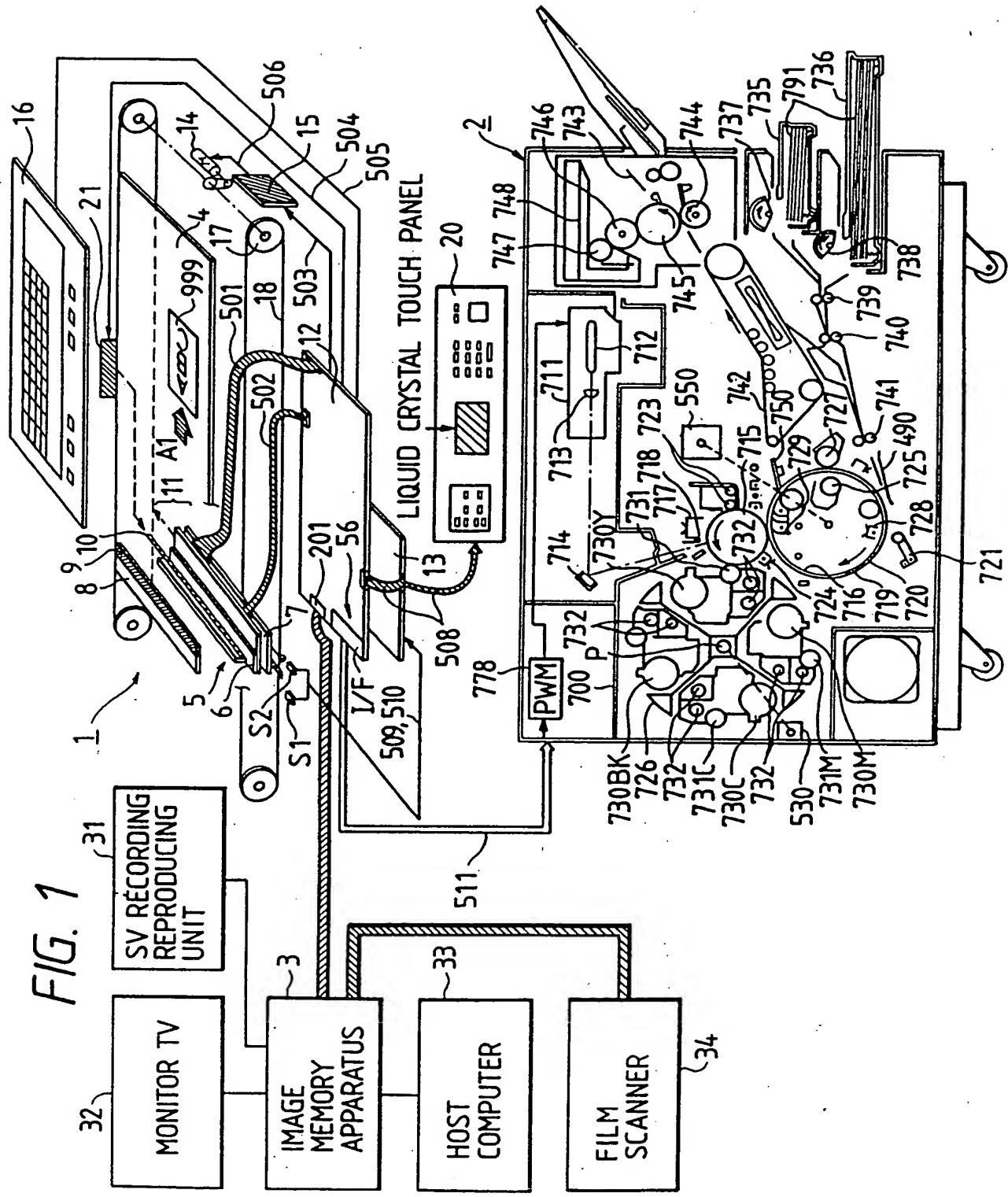


FIG. 2

FIG. 2B

FIG. 2A

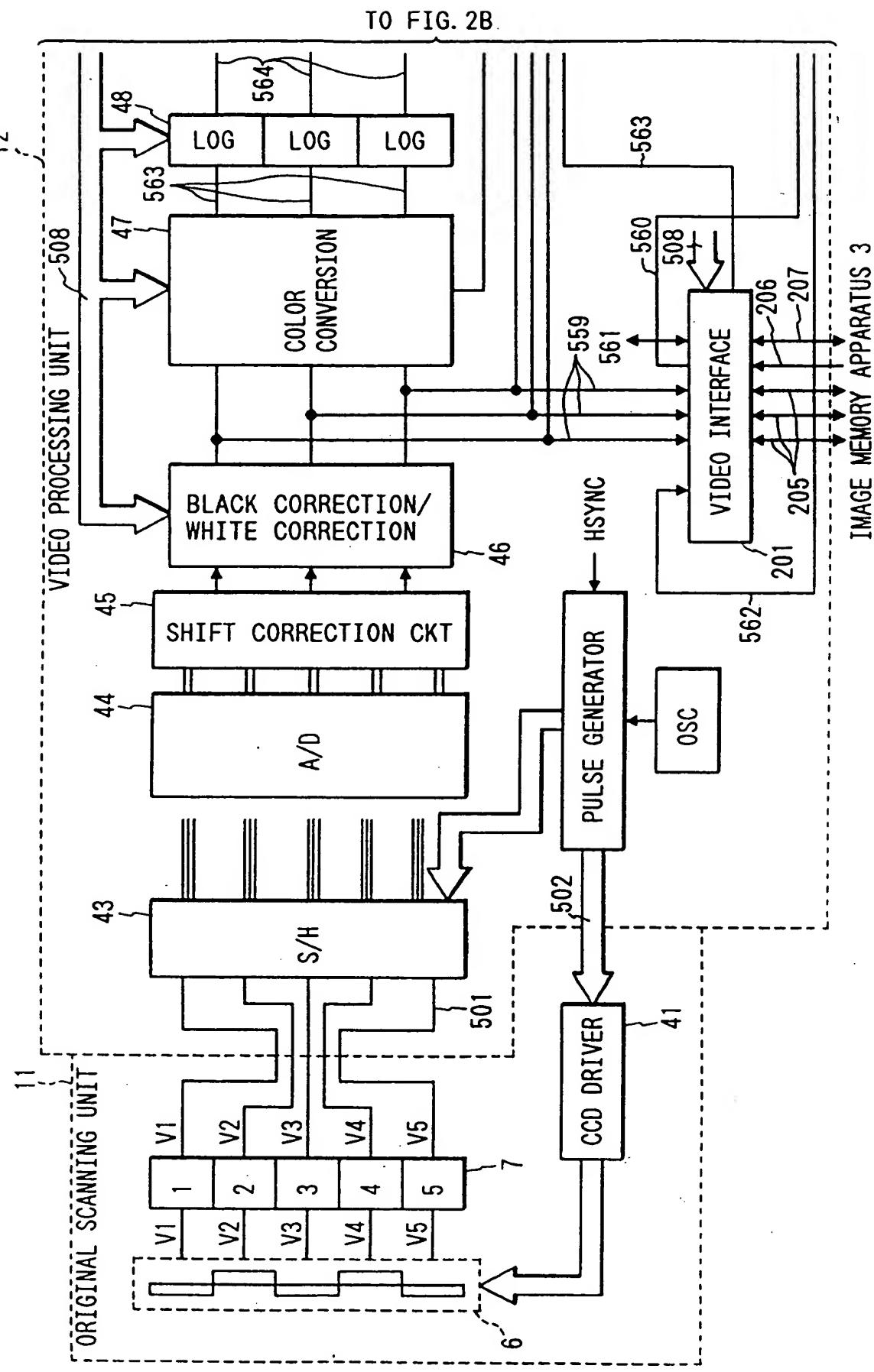
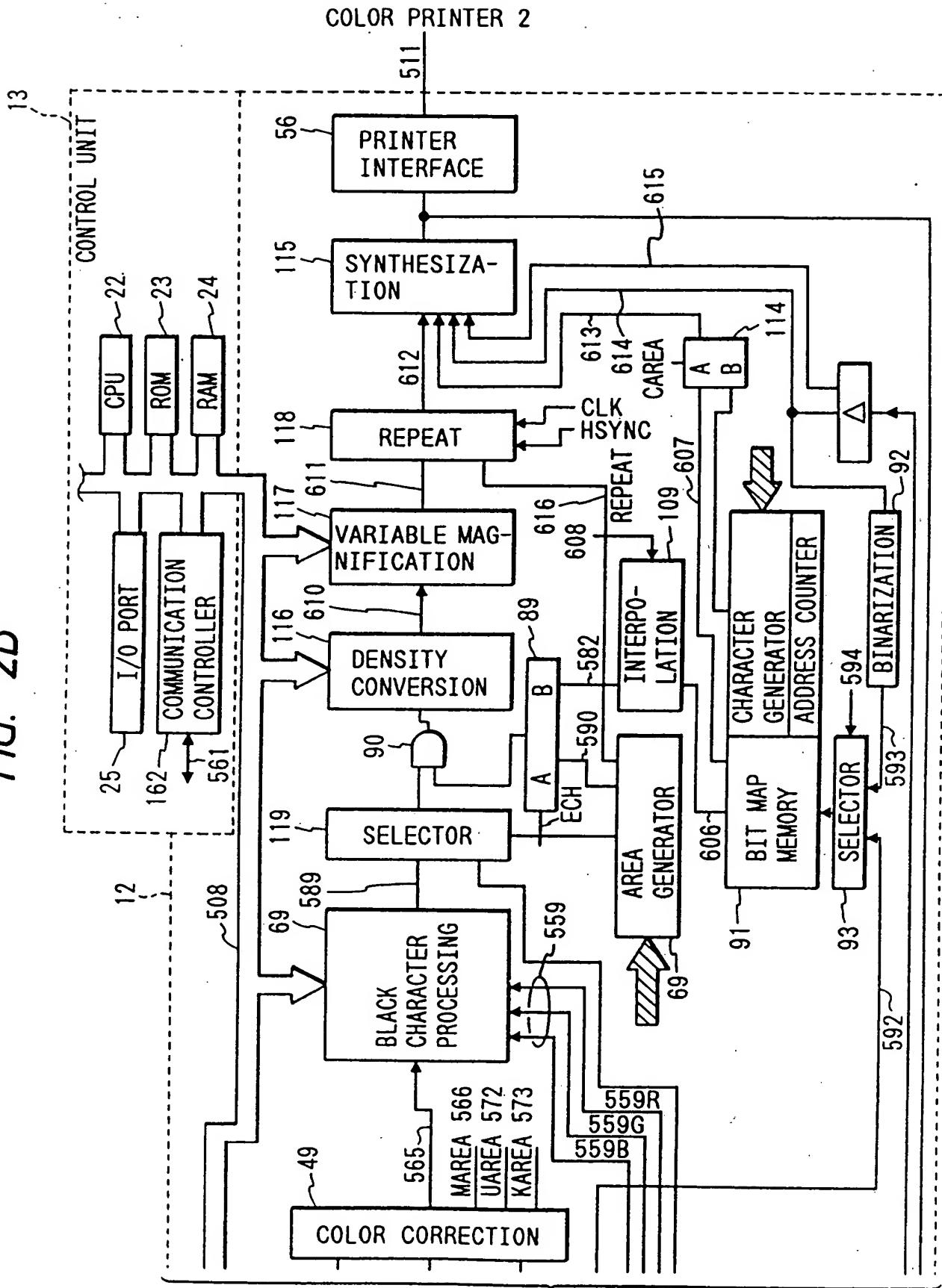


FIG. 2B



FROM FIG. 2A

FIG. 3

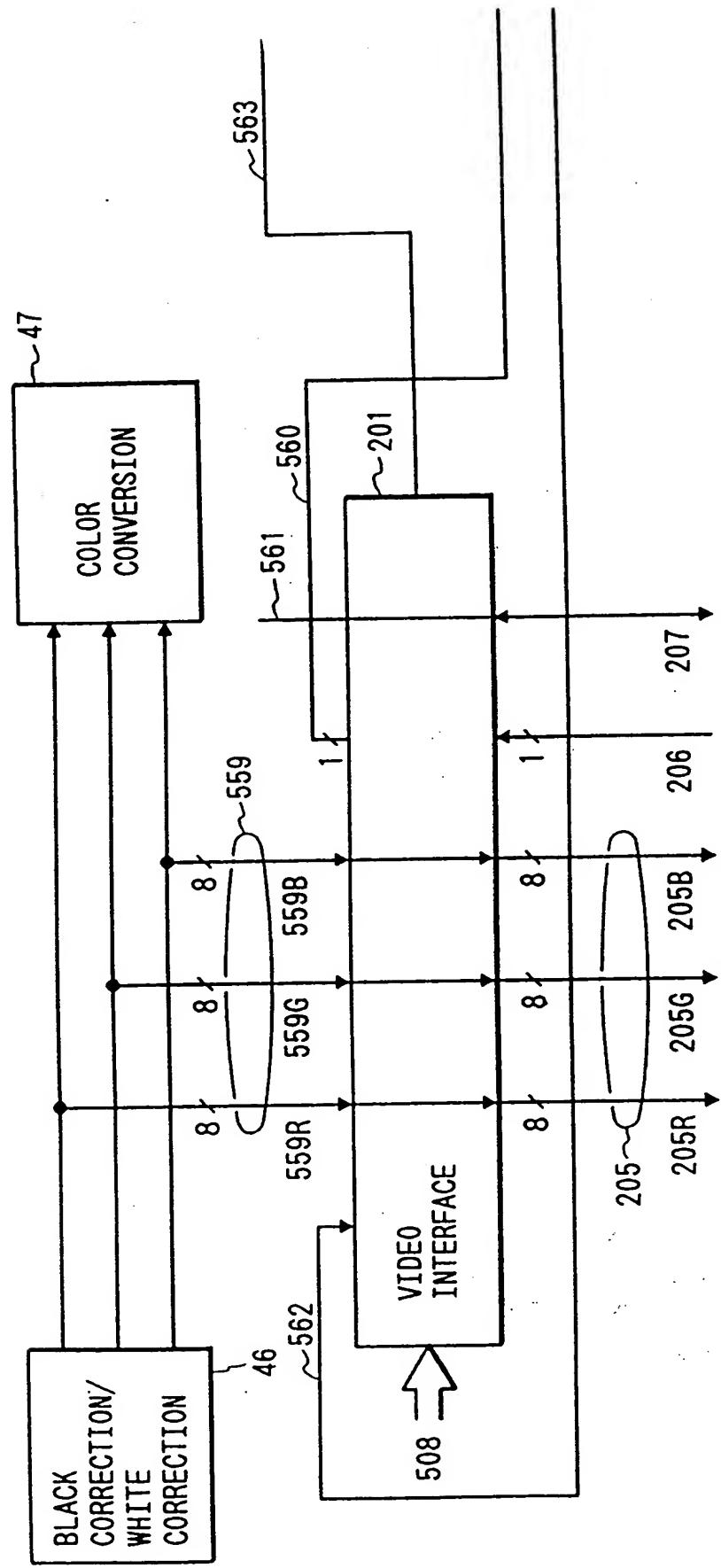


FIG. 4

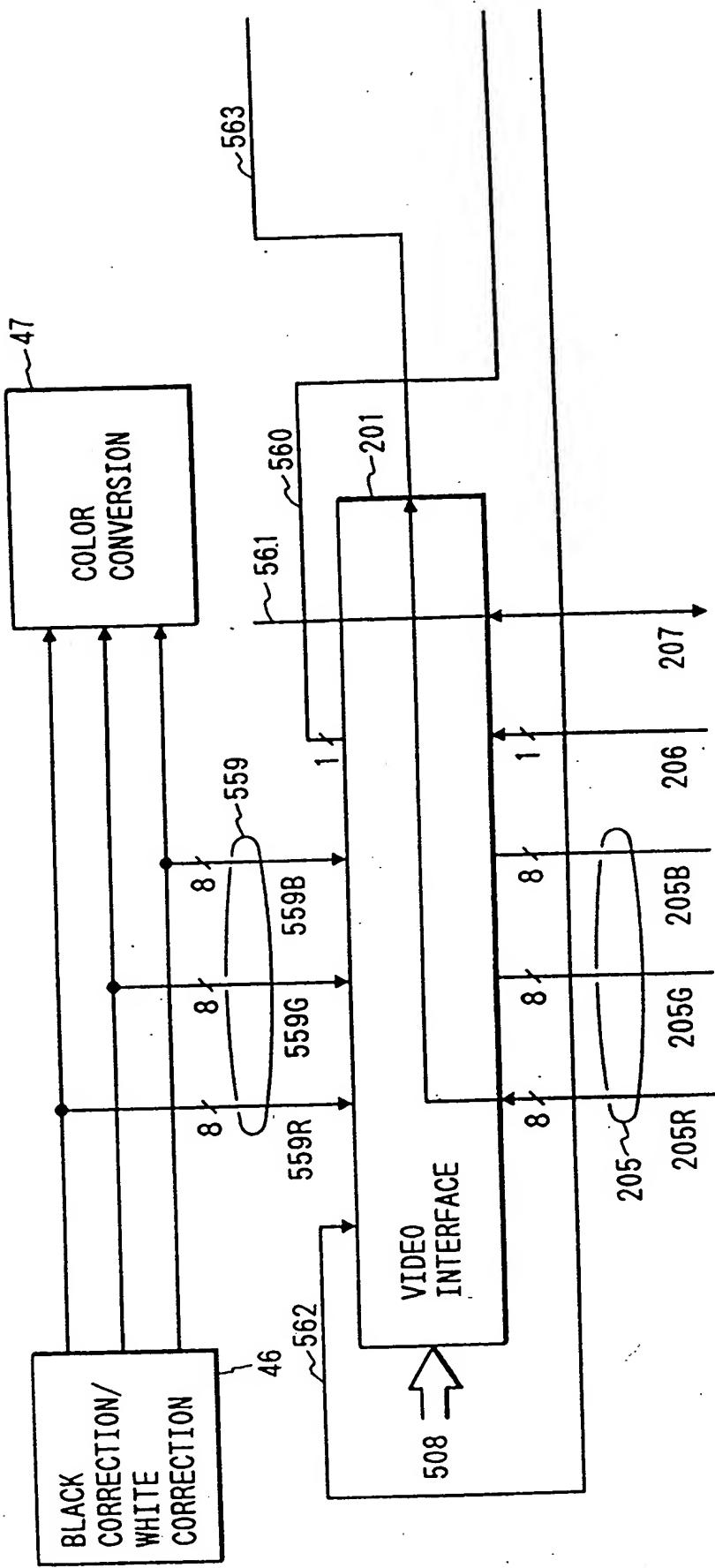


FIG. 5

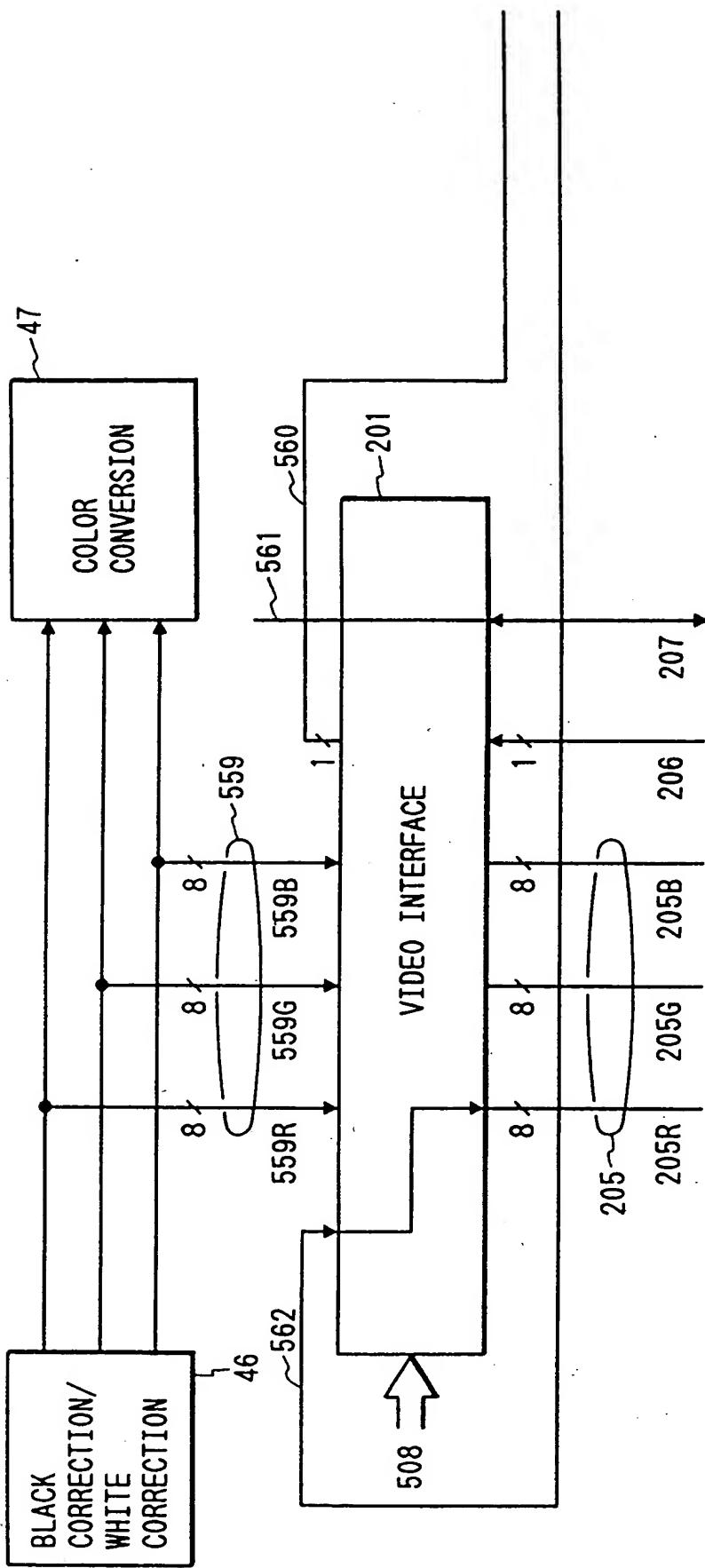


FIG. 6

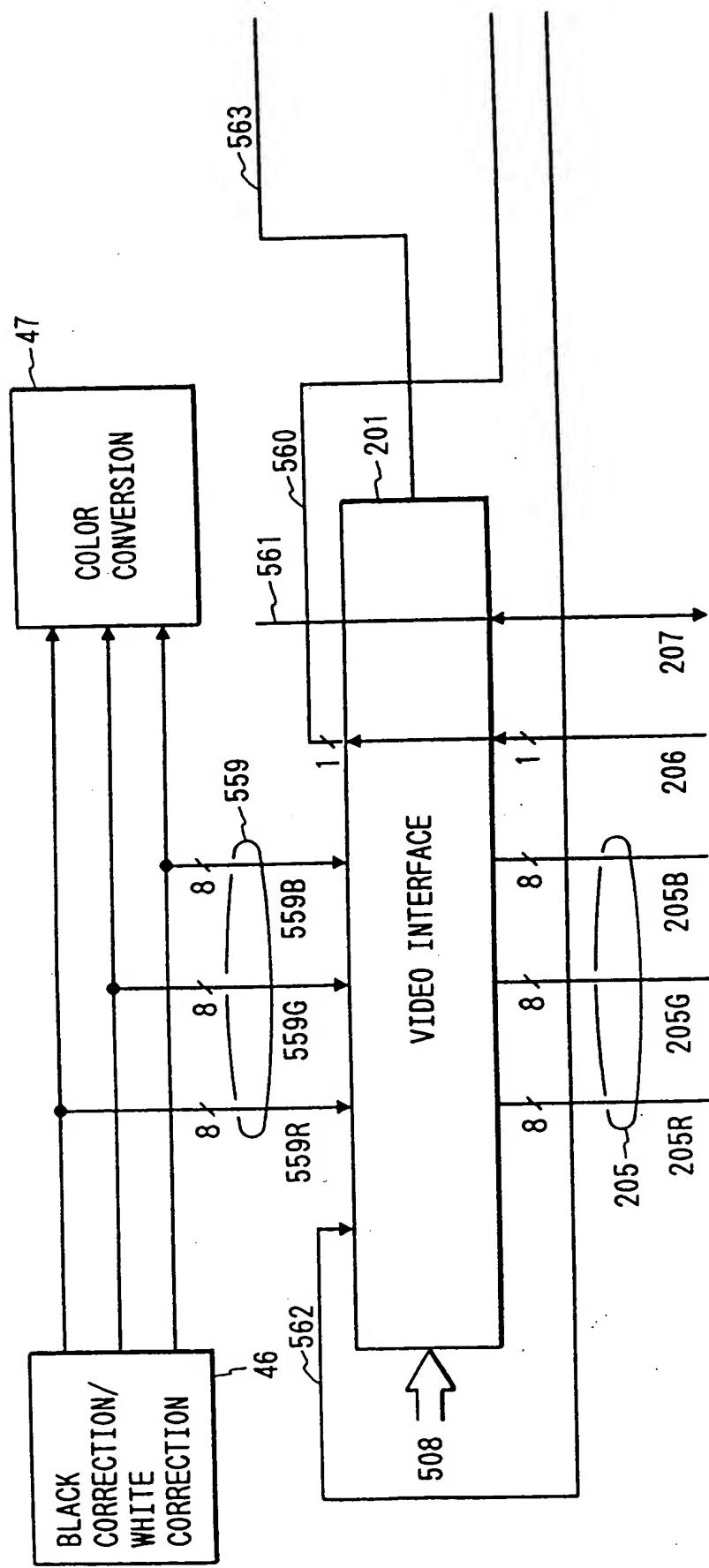


FIG. 7A

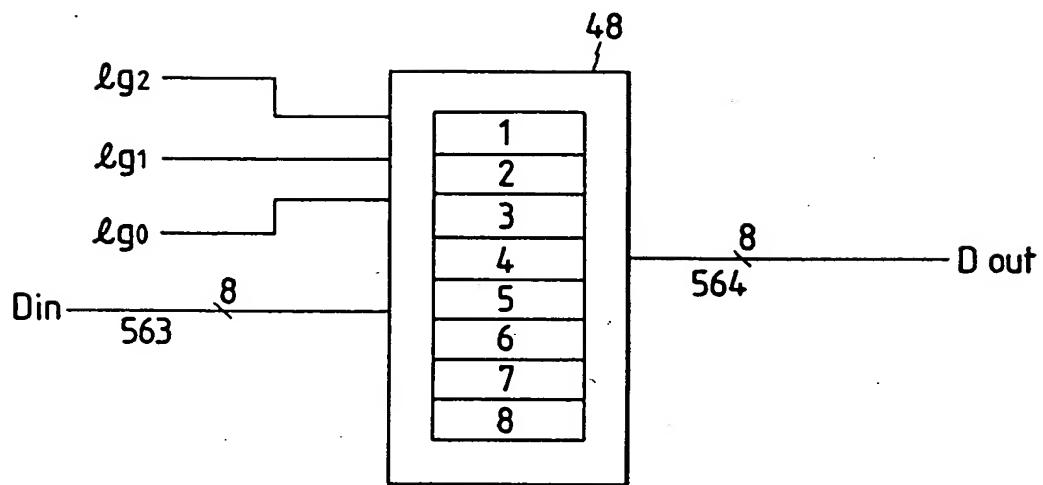
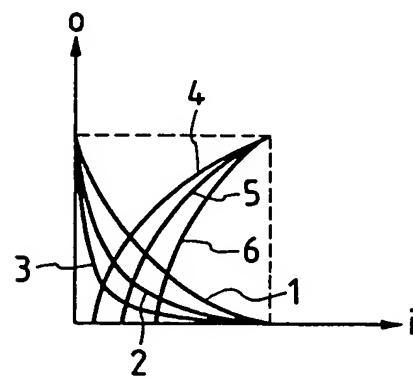


FIG. 7B



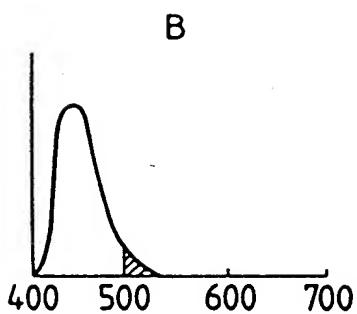


FIG. 8A

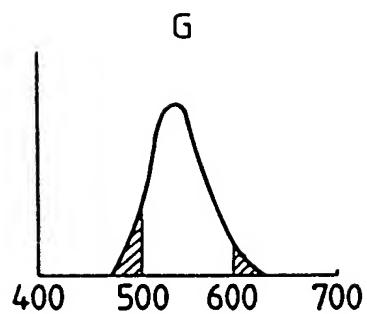


FIG. 8B

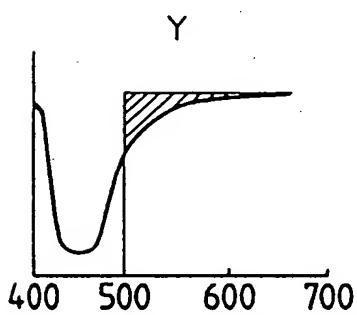


FIG. 9A

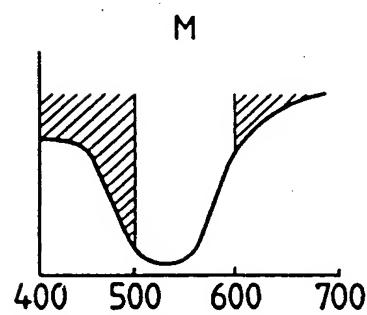


FIG. 9B

FIG. 10B

	C ₂	C ₁	C ₀	a	b	c			
0	0	0	1	1a	1b	1c	Y		
0	0	1		2a	2b	2c	M		
0	1	0		3a	3b	3c	C		
0	1	1		4a	4b	4c	MONO		
1		X	X		X	X	X	BK	

FIG. 11

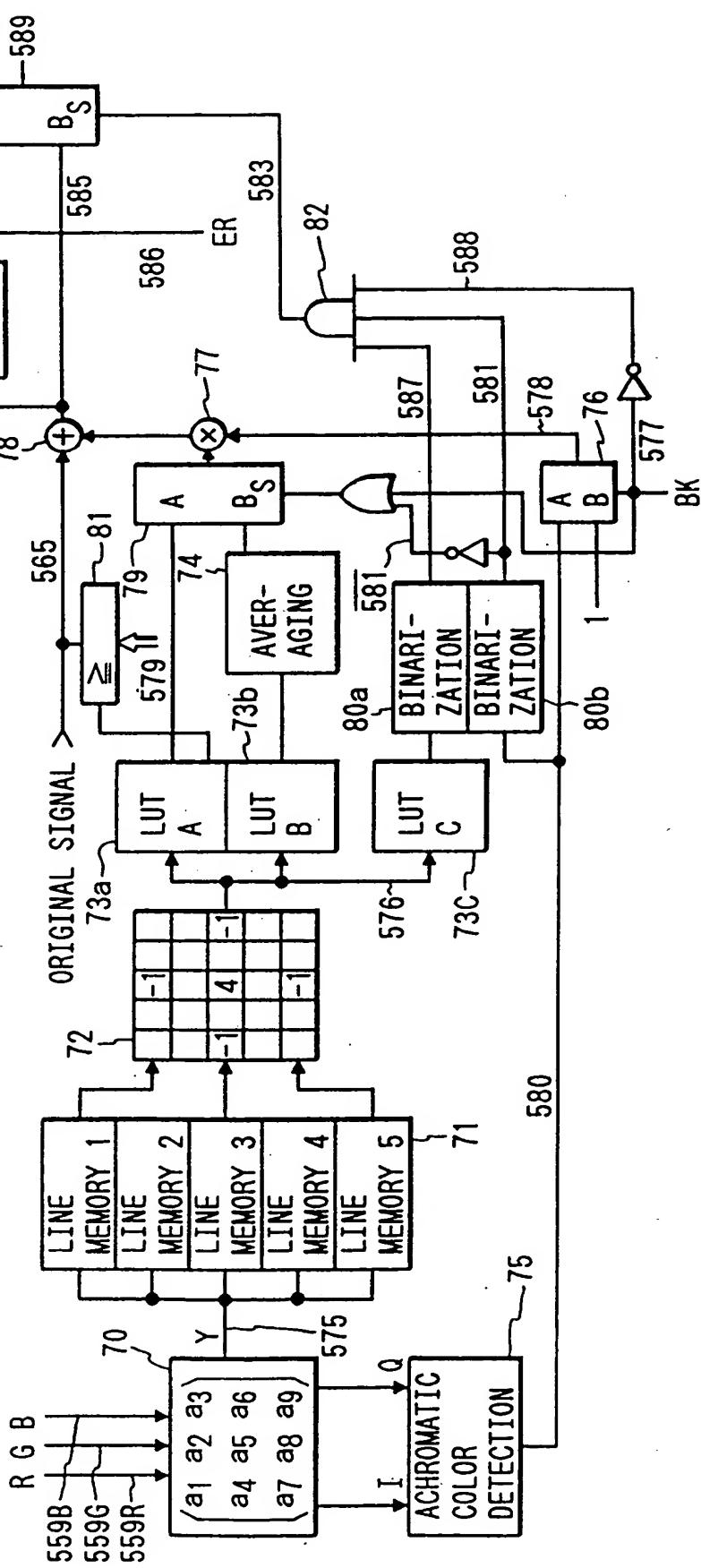
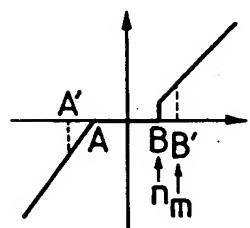
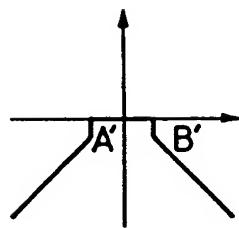


FIG. 12A



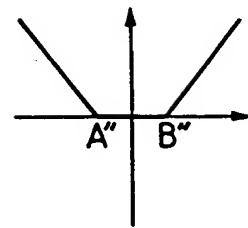
LUT(LOOKUP TABLE)A

FIG. 12B



LUT(LOOKUP TABLE)B

FIG. 12C



LUT(LOOKUP TABLE)C

FIG. 12D

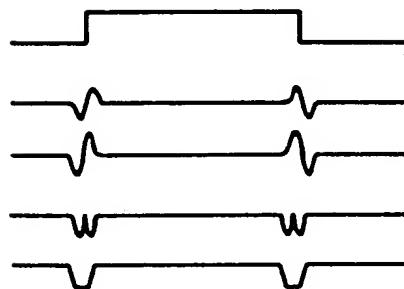


FIG. 13A

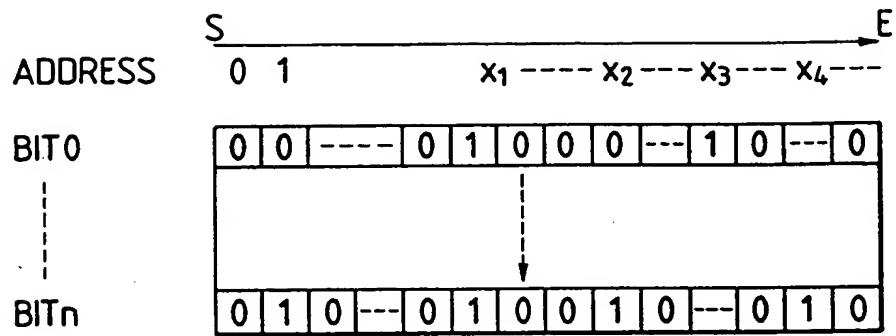


FIG. 13B

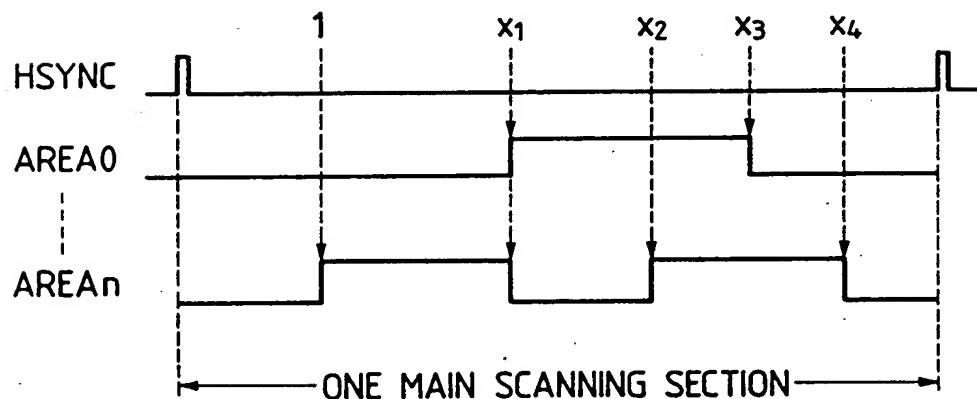


FIG. 13C

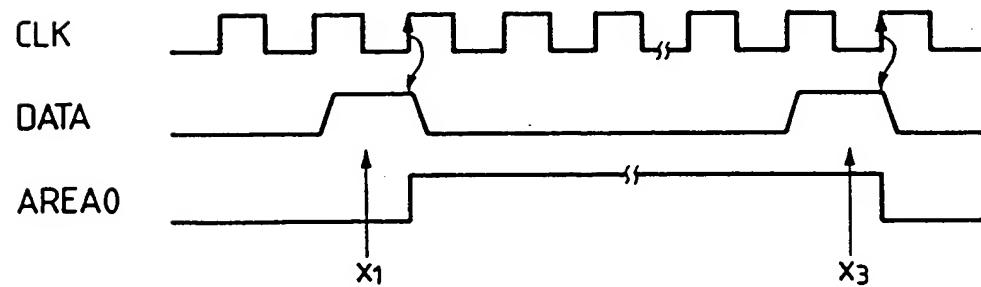


FIG. 13D

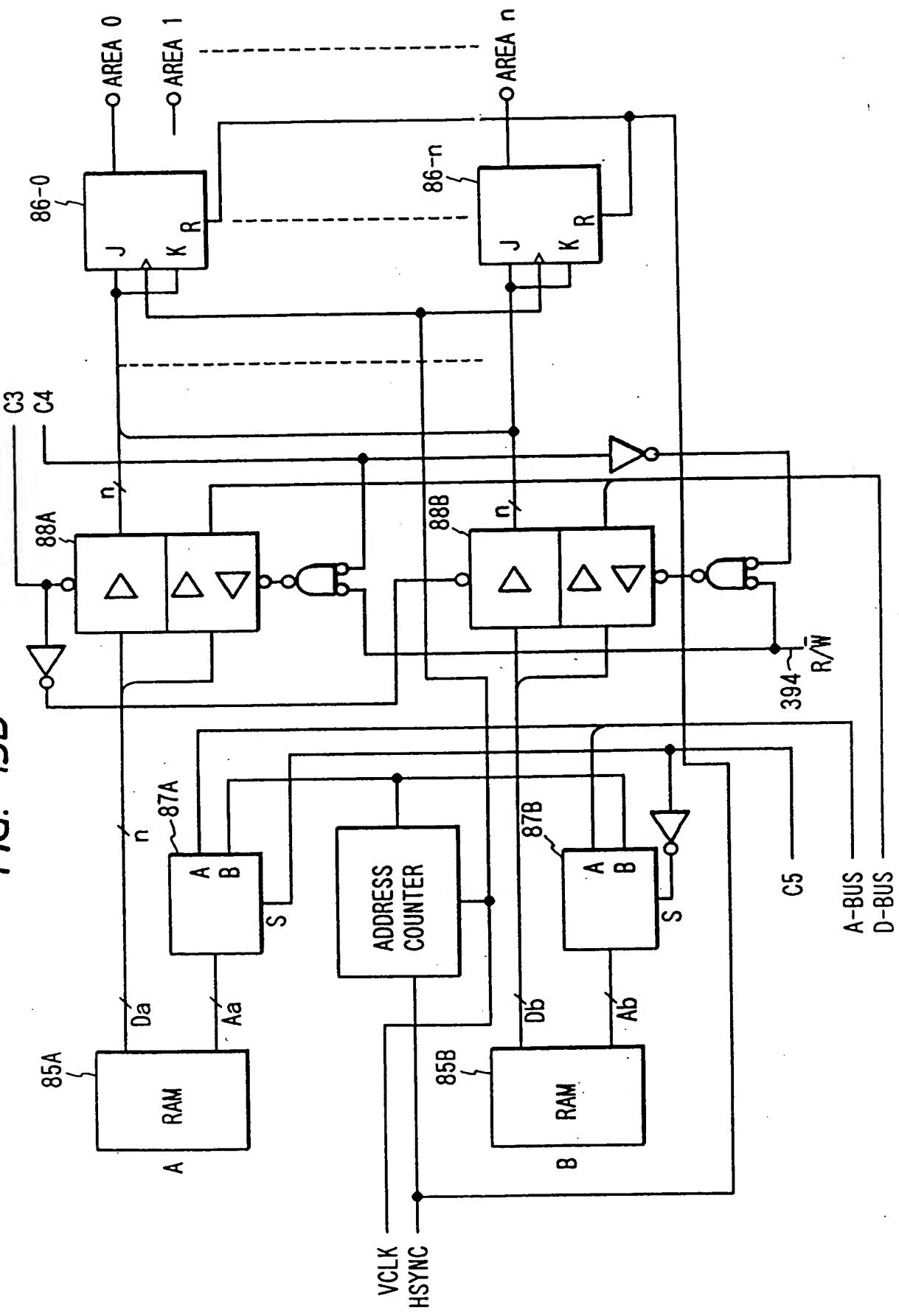


FIG. 13E

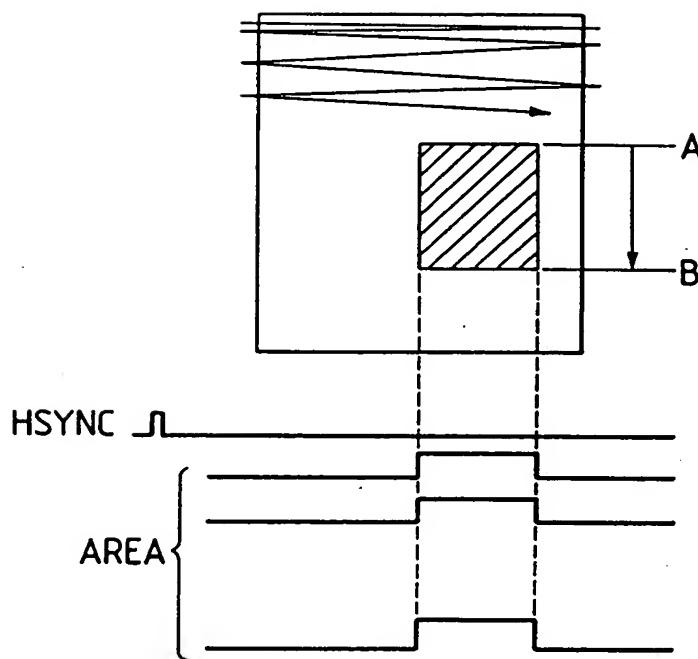


FIG. 13F

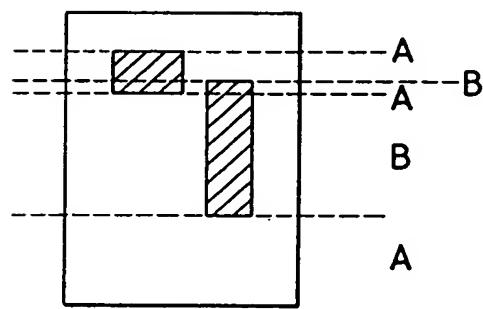


FIG. 14A

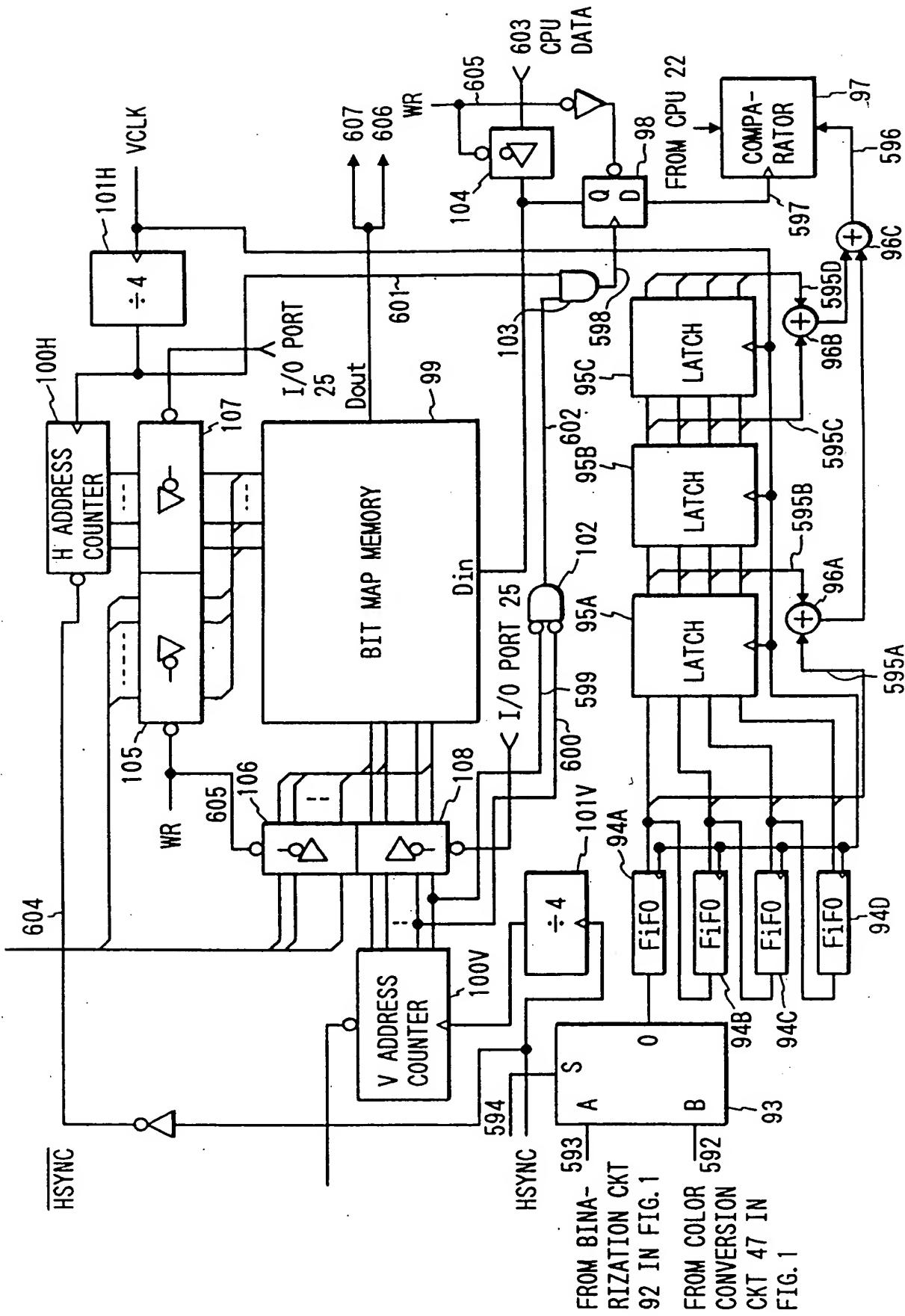


FIG. 14B

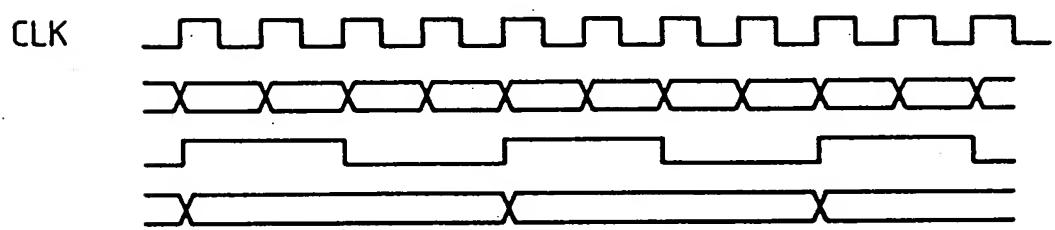


FIG. 14C

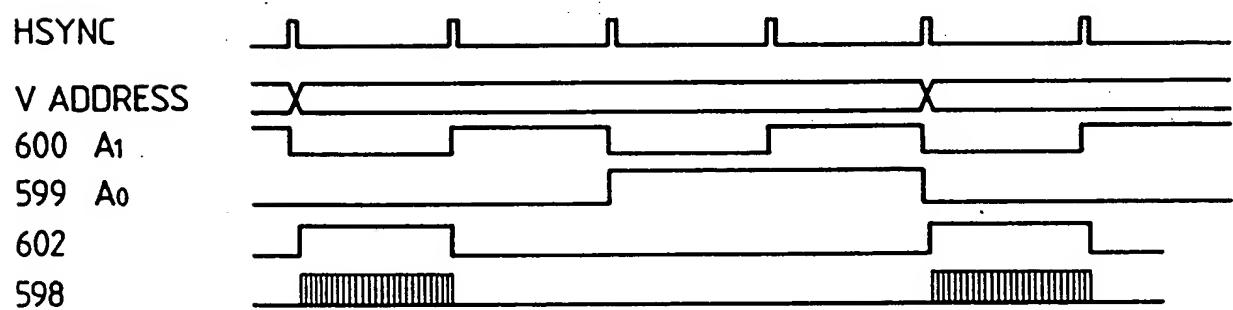


FIG. 14D

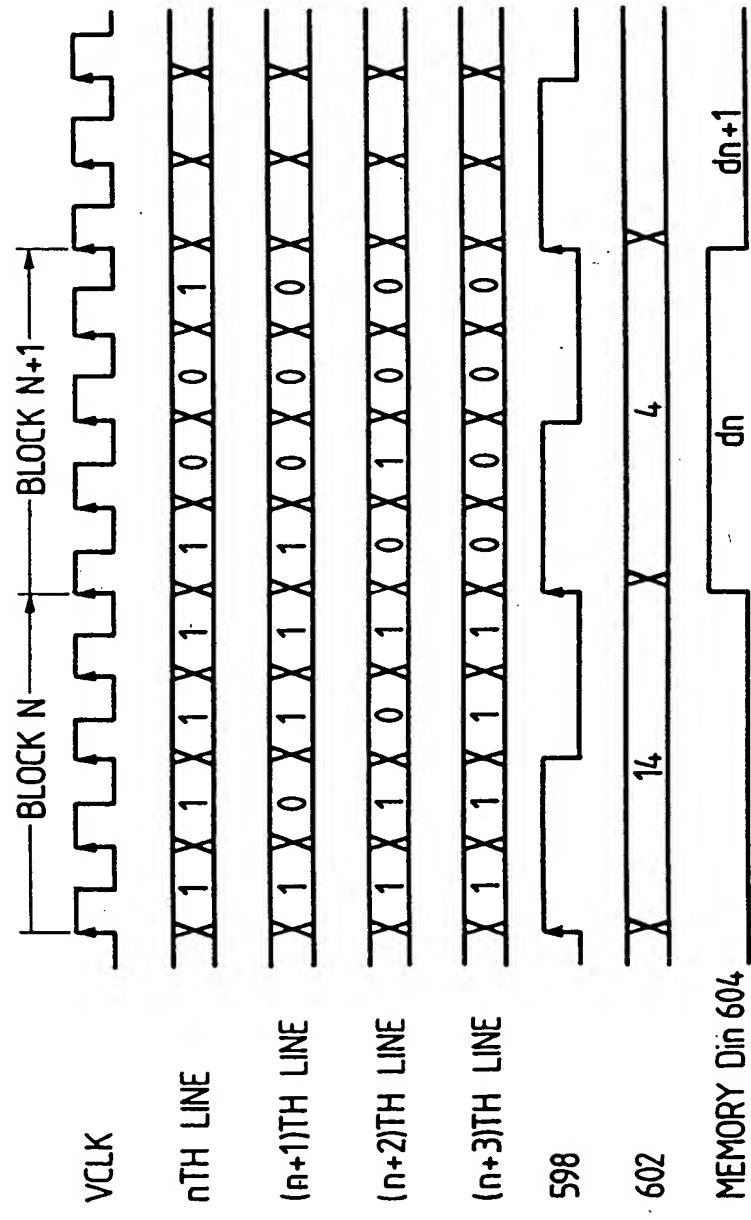


FIG. 15

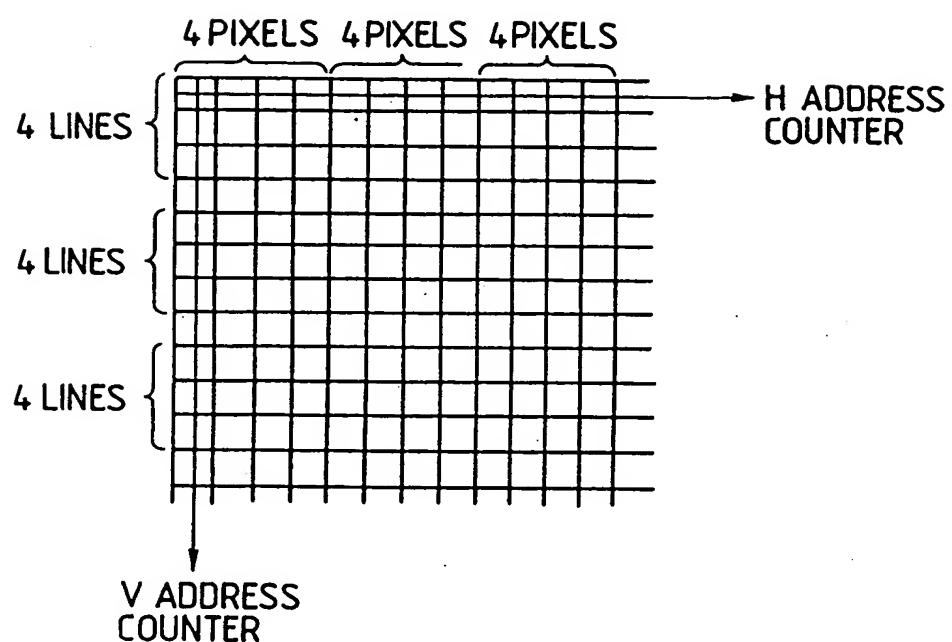


FIG. 16

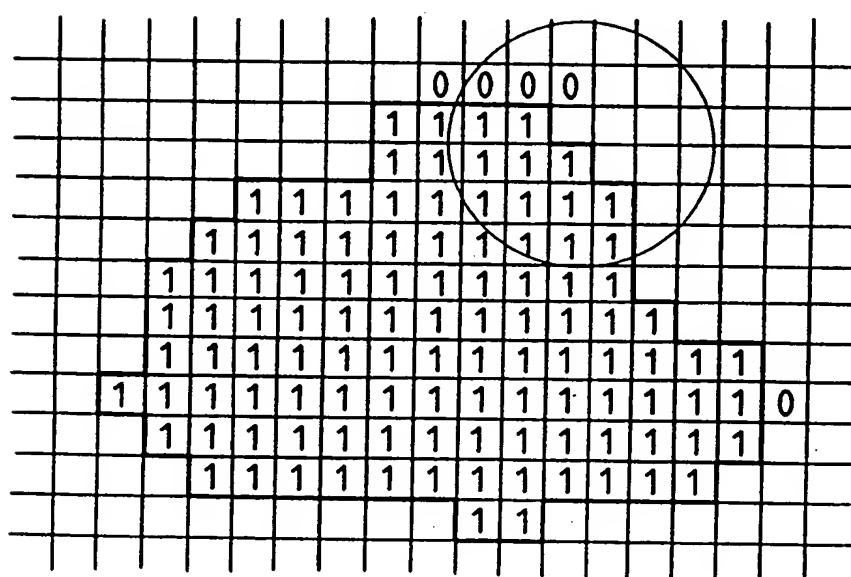


FIG. 17A

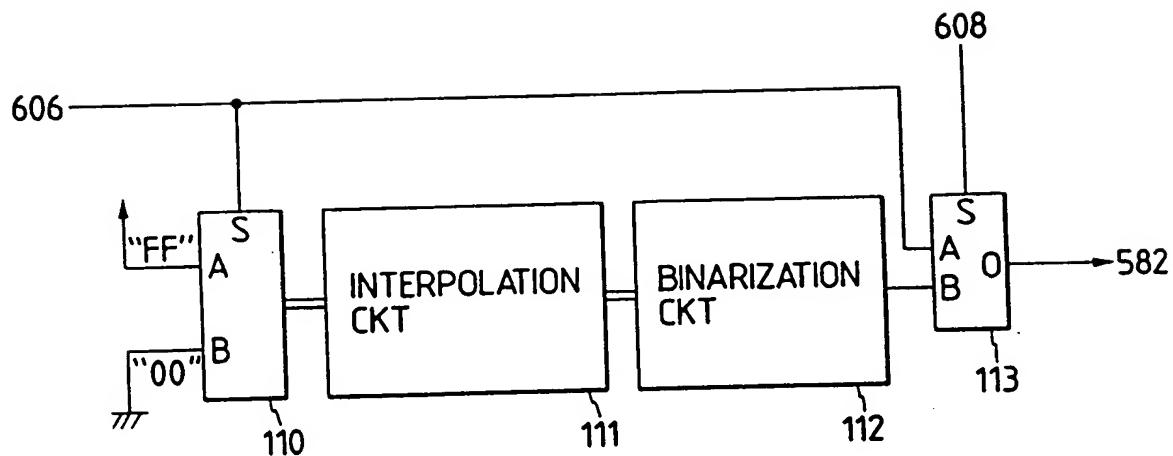


FIG. 17B

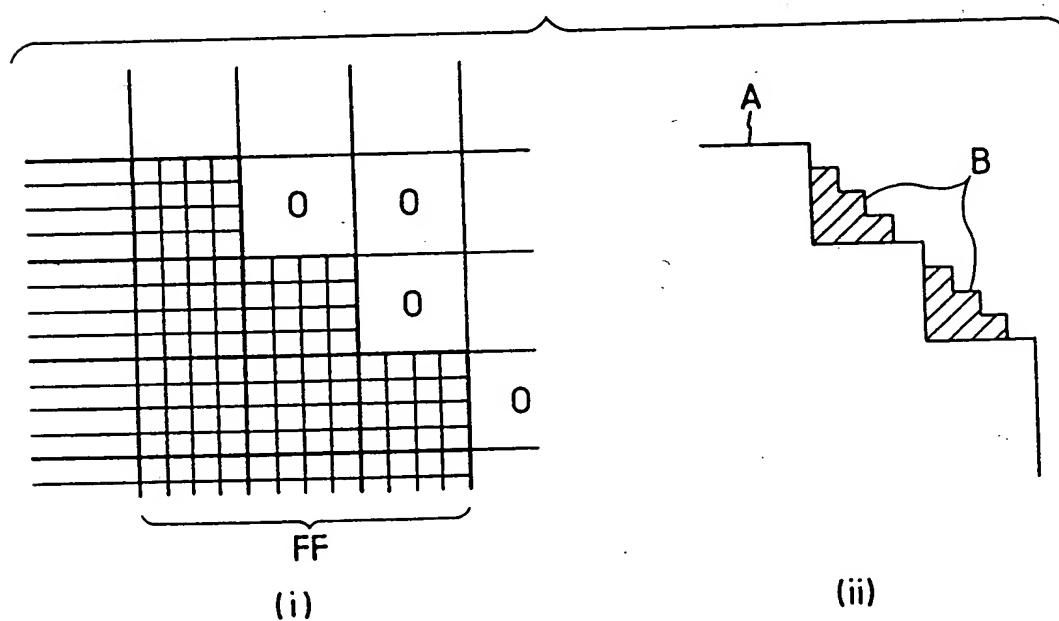


FIG. 18A

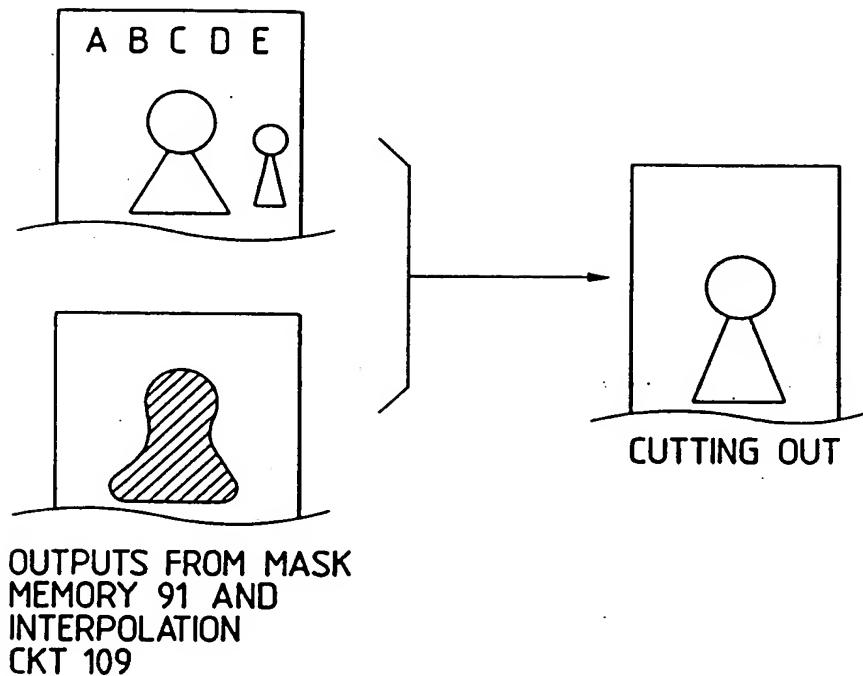


FIG. 18B

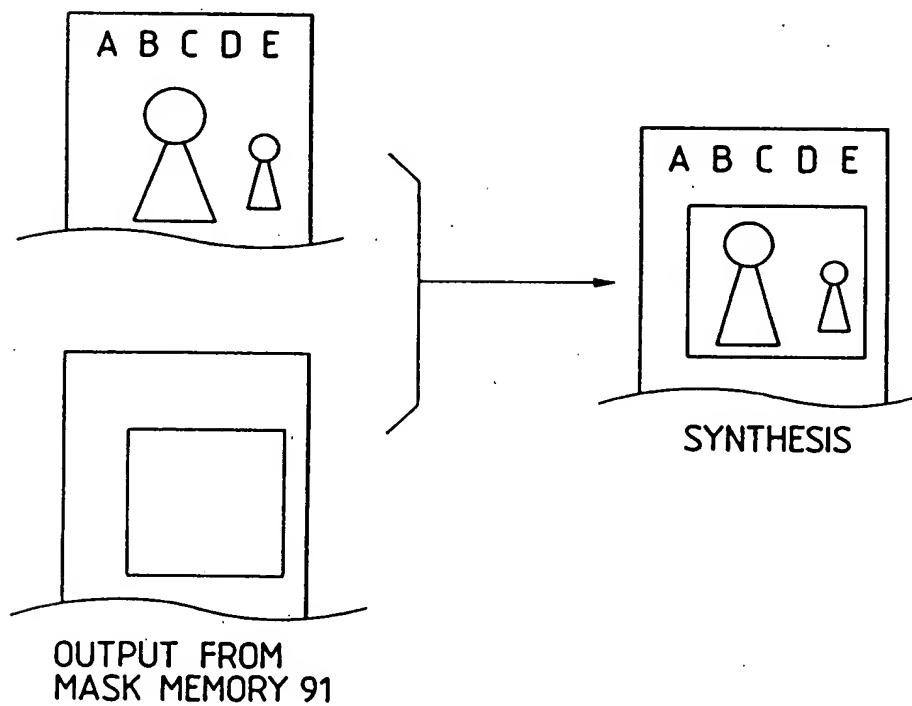


FIG. 19

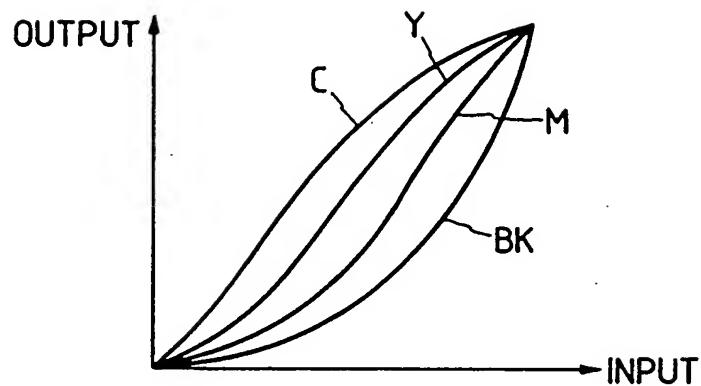


FIG. 20A

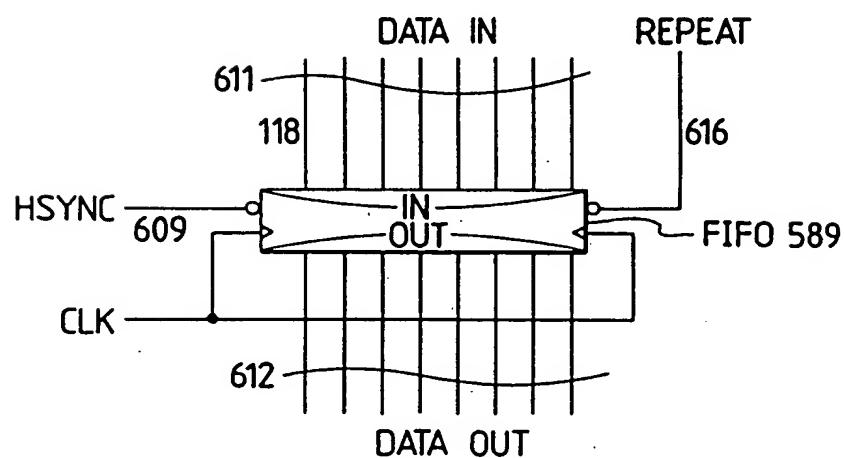


FIG. 20B

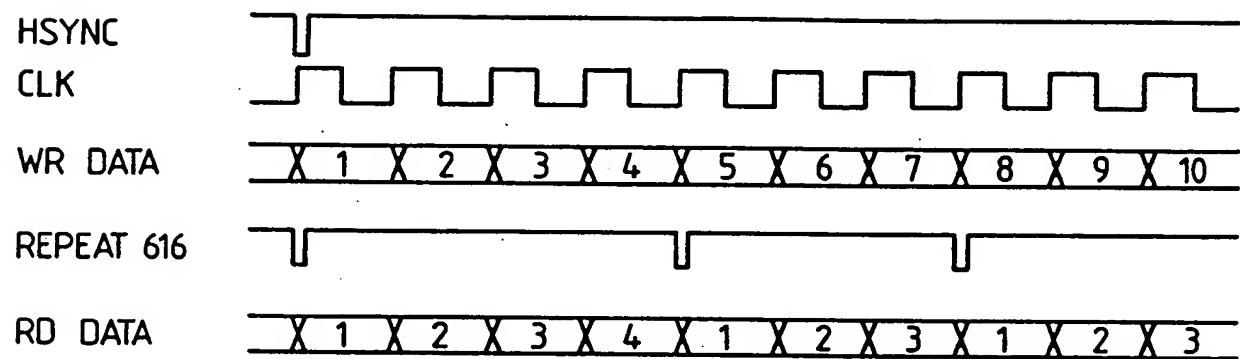


FIG. 20C

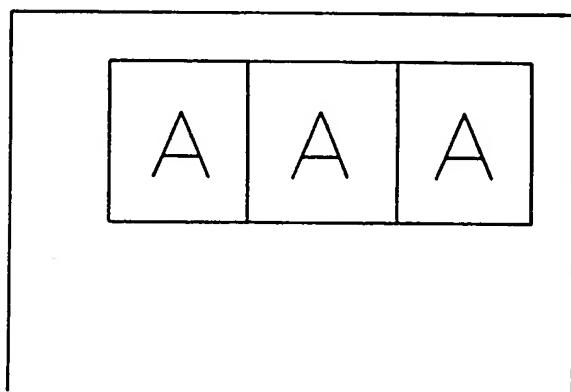


FIG. 21A

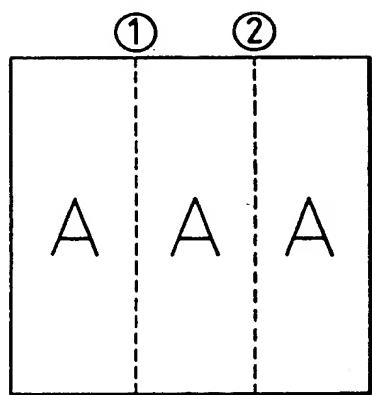


FIG. 21B

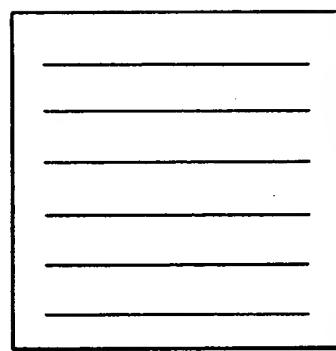


FIG. 21C

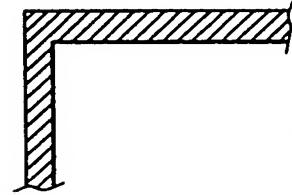
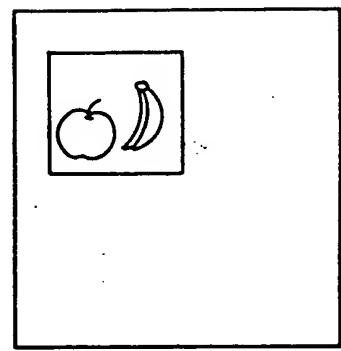


FIG. 22

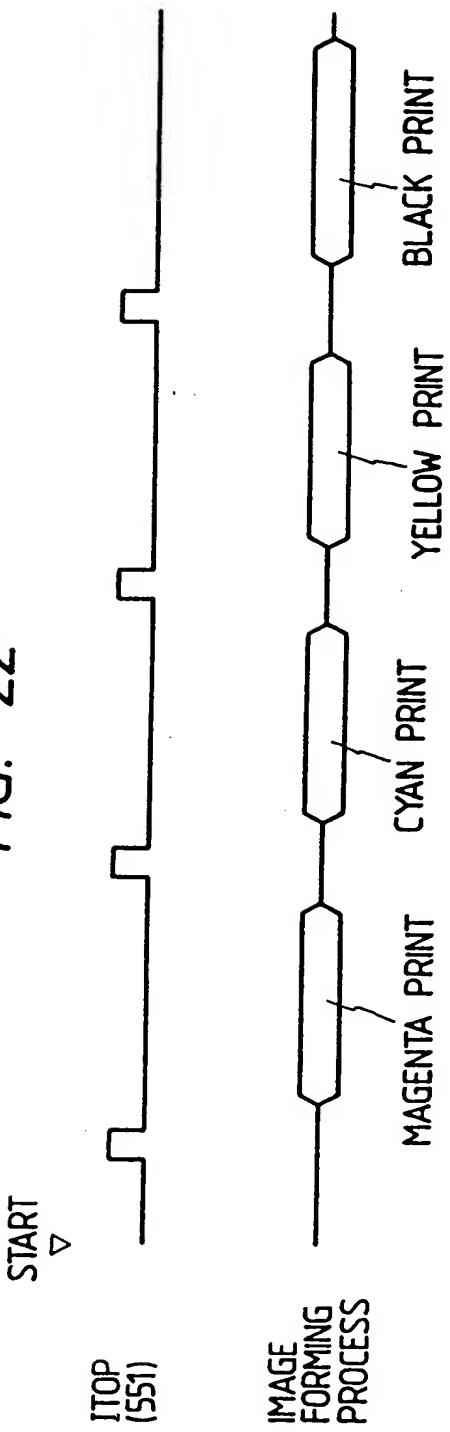


FIG. 23

MODE SETTING SURFACE
420

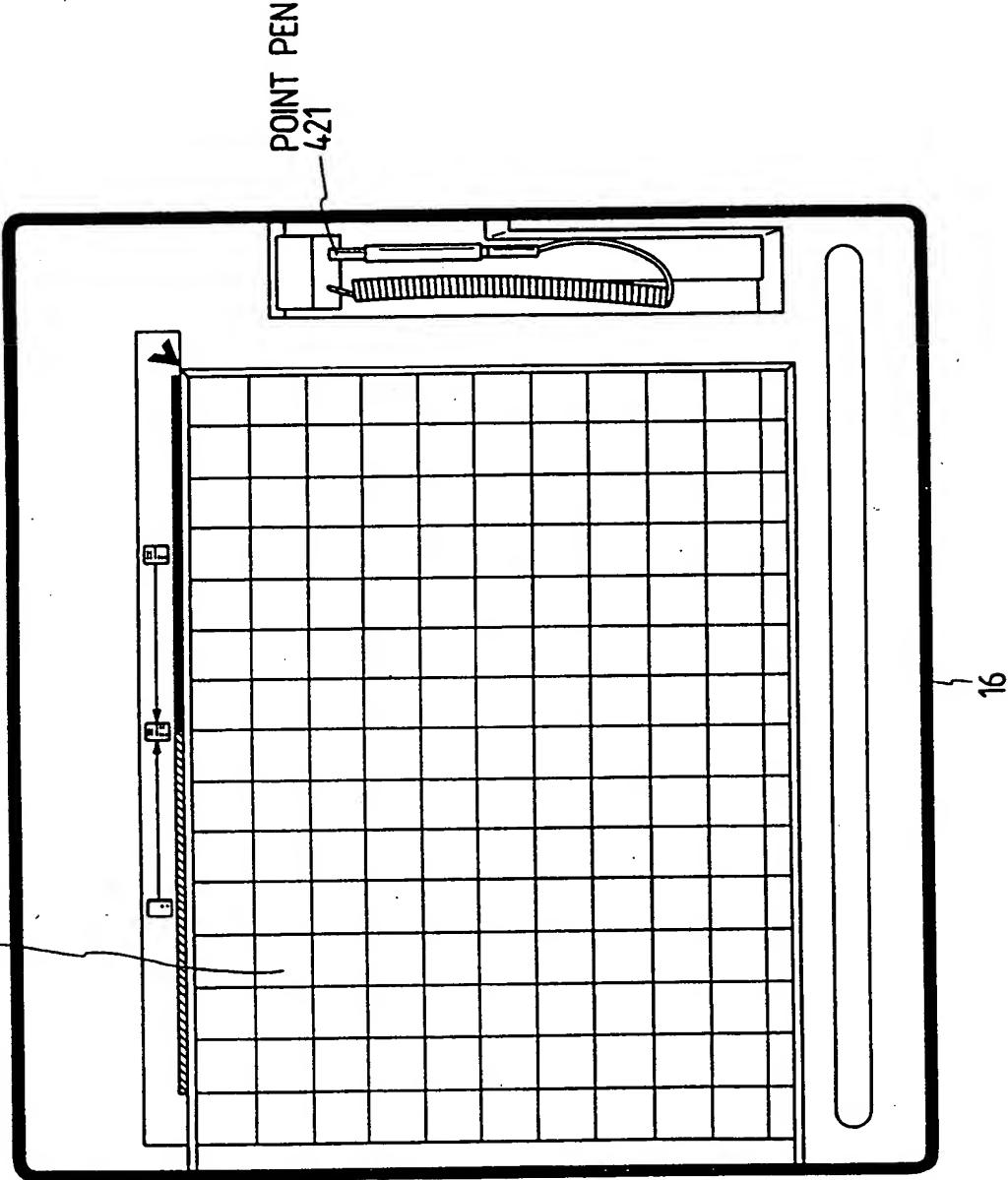


FIG. 24

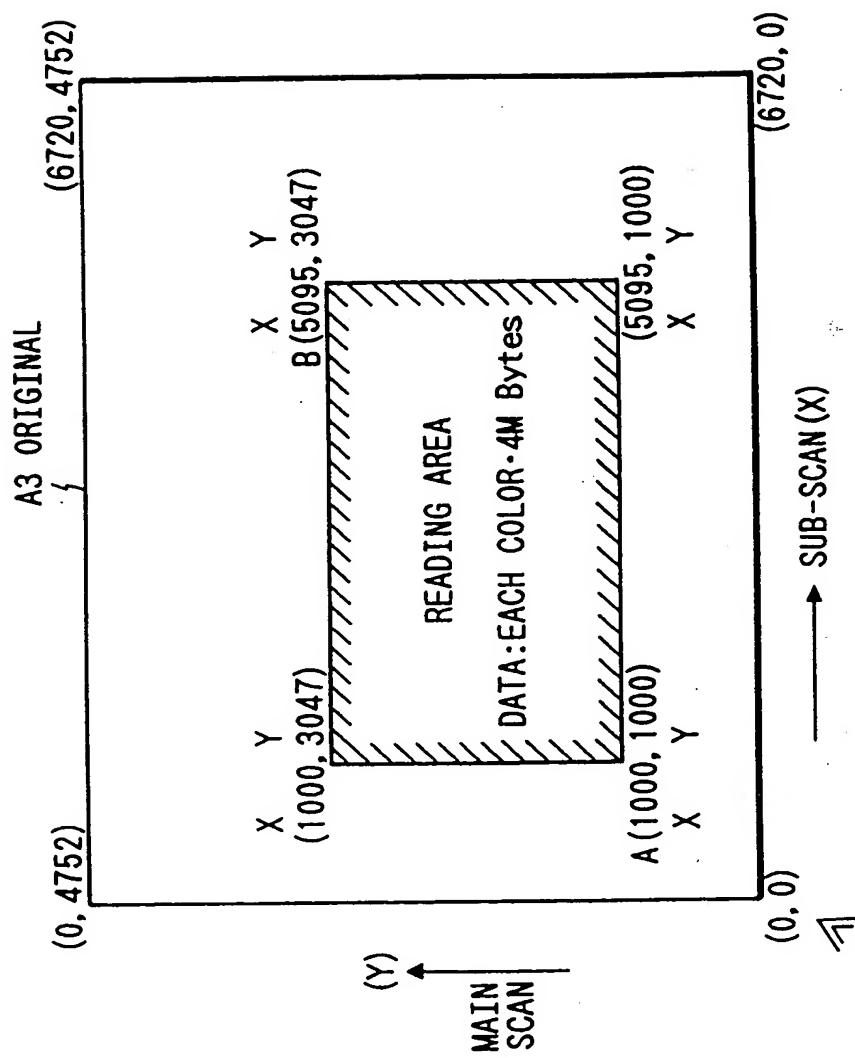


FIG. 25A

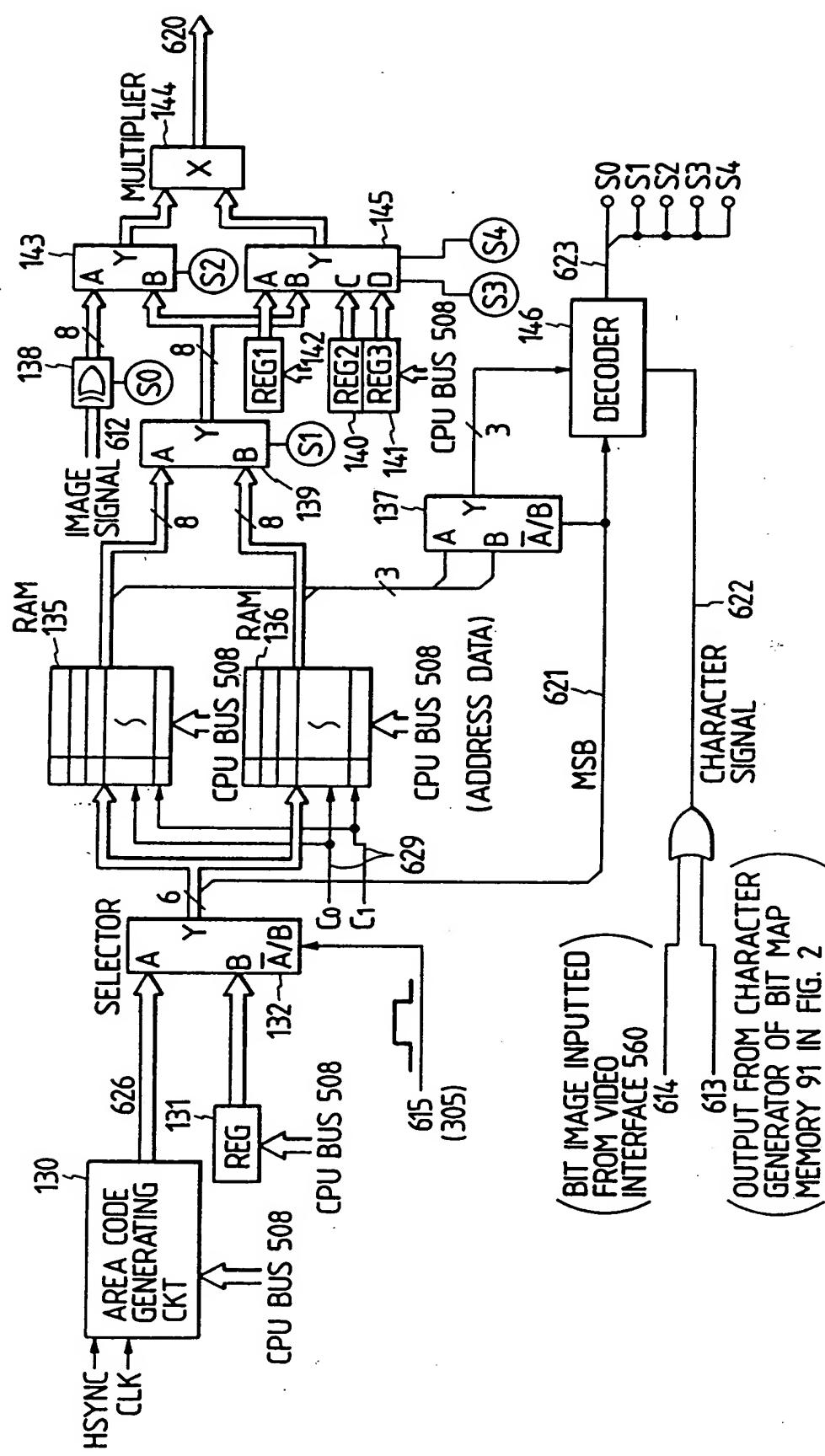


FIG. 25B

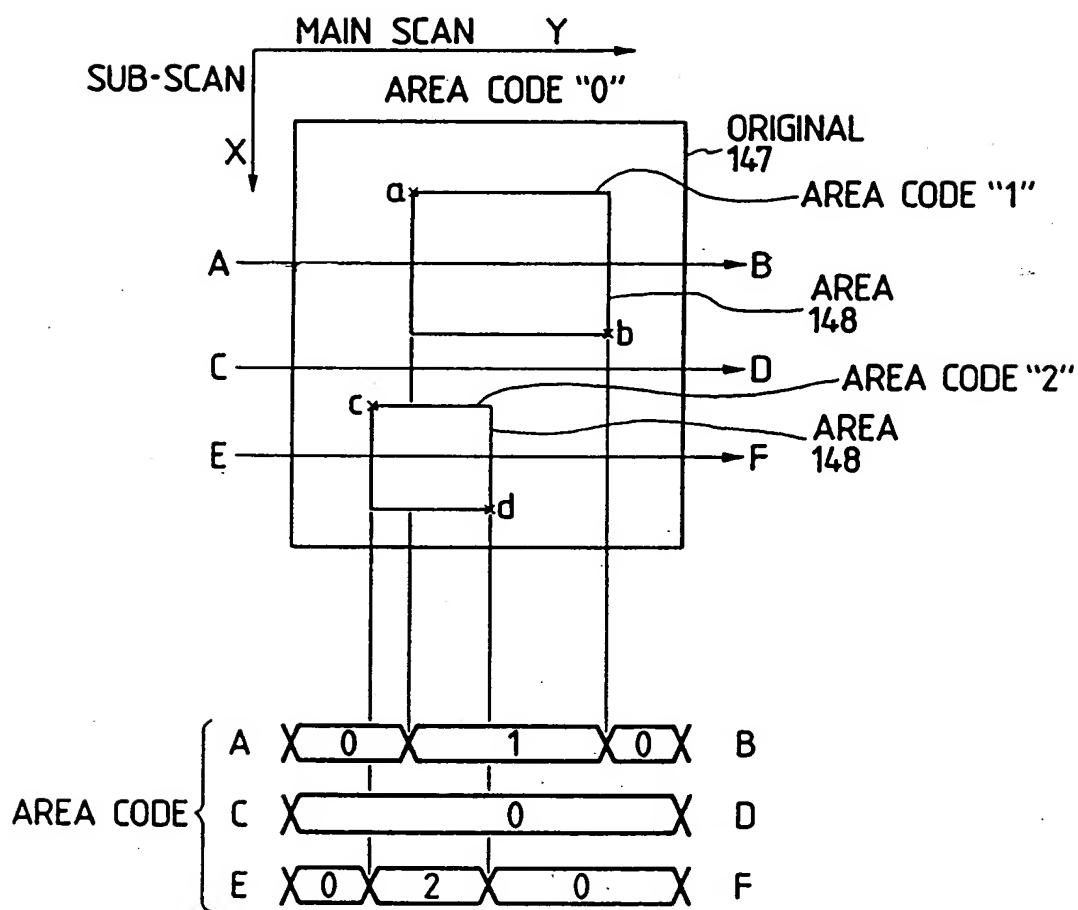


FIG. 25C

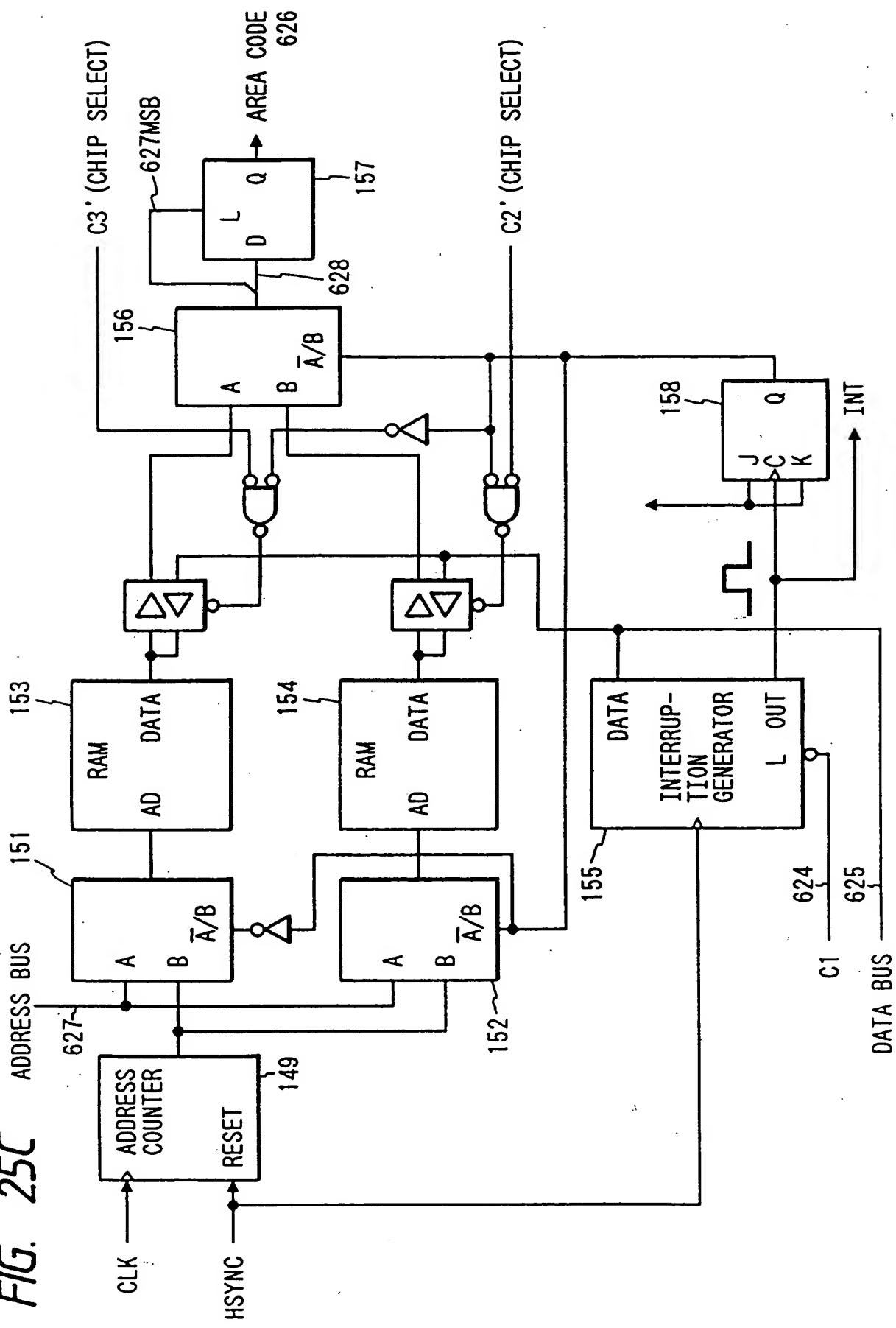


FIG. 25D

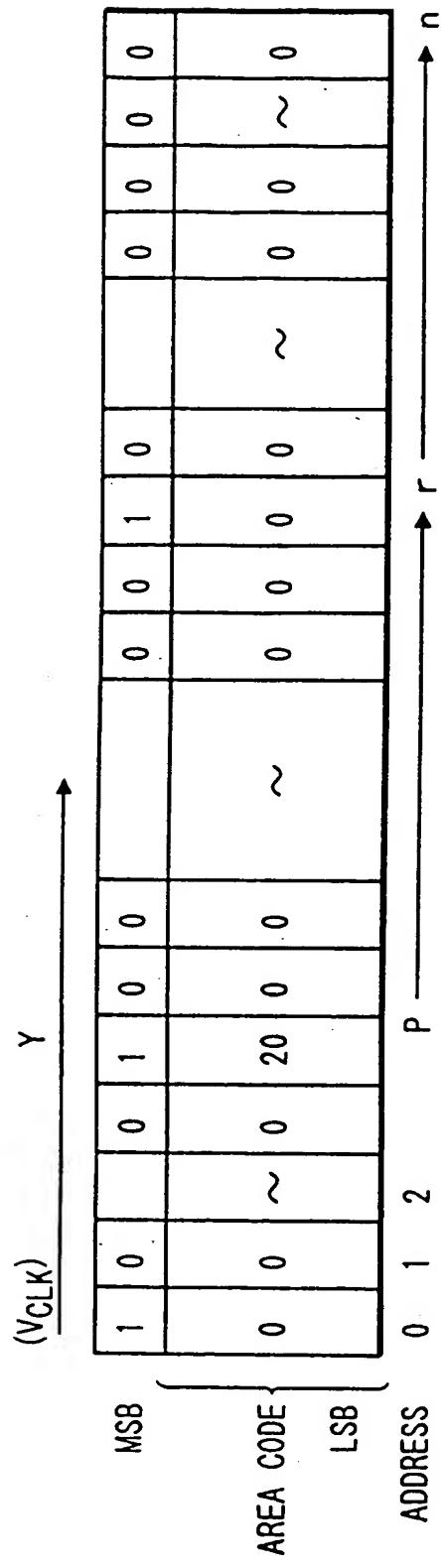


FIG. 25E
AREA CODE "20" 159

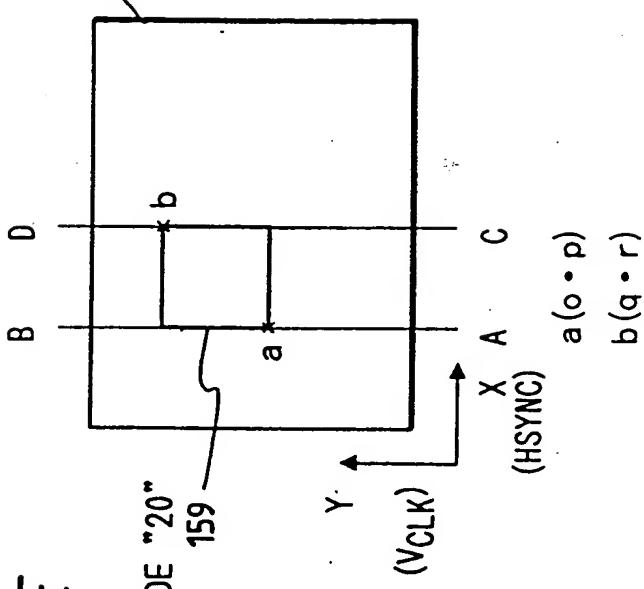


FIG. 25F

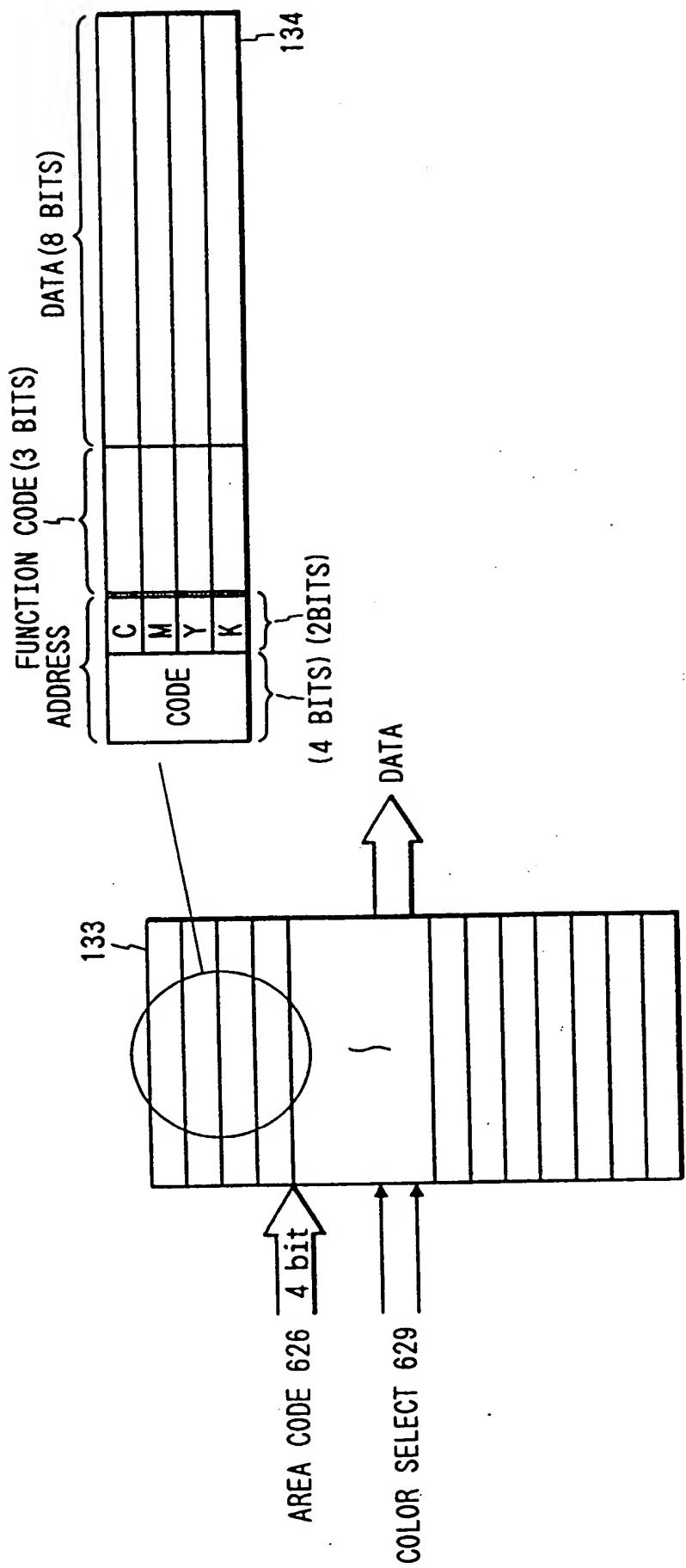


FIG. 25G

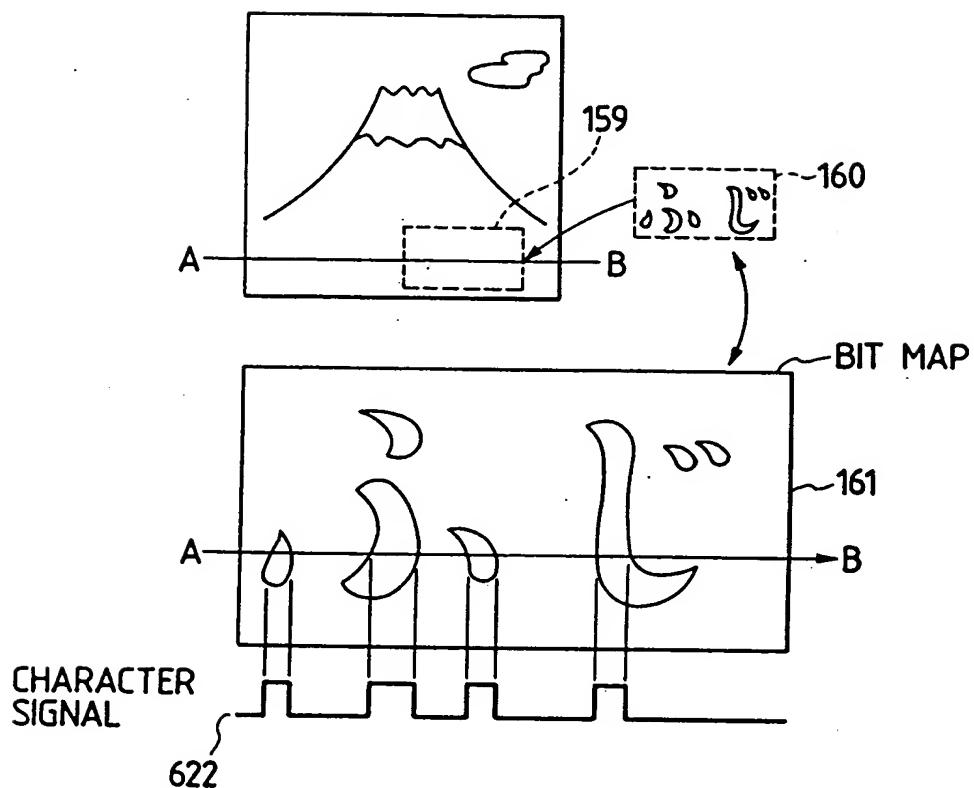


FIG. 25H

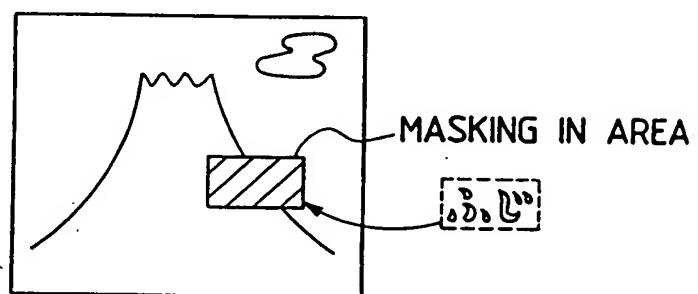


FIG. 25I

FUNCTION CODE	CHARACTER SIGNAL	INPUT				OUTPUT			
		MSB	S0	S1	S2	S3	S4		
1	0 0 0	0	0	0	0	1	0		
		-1	-1	-1	-1	0	0		
2	0 0 1	0	0	0	0	0	0		
		-1	-1	-1	-1	0	0		
3	0 1 0	0	0	0	0	0	0		
		-1	-1	-1	-1	0	0		
4	0 1 1	0	0	0	0	0	0		
		-1	-1	-1	-1	0	0		
5	1 0 0	0	0	0	0	0	0		
		-1	-1	-1	-1	0	0		
6	1 0 1	0	0	0	0	0	0		
		-1	-1	-1	-1	0	0		

FIG. 26

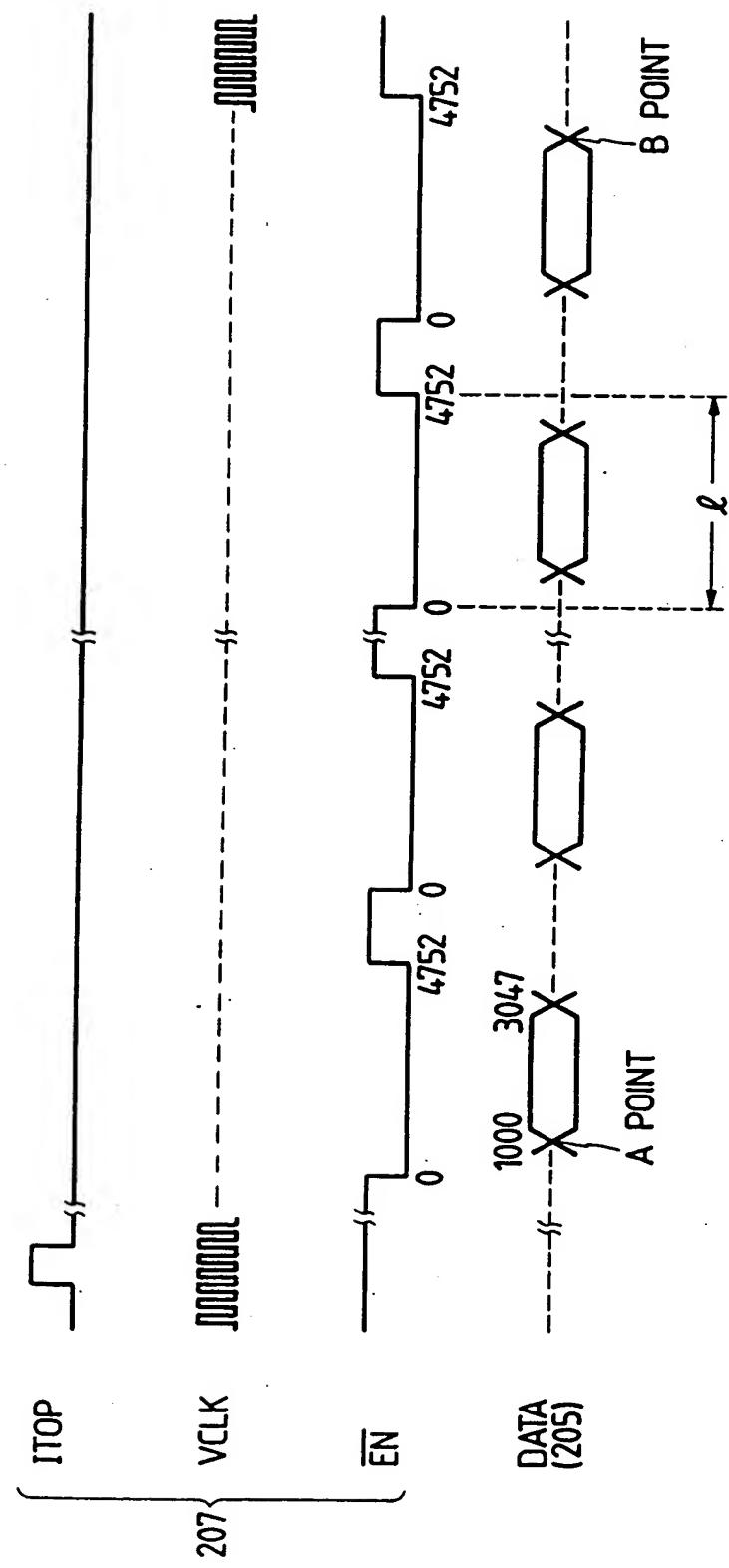
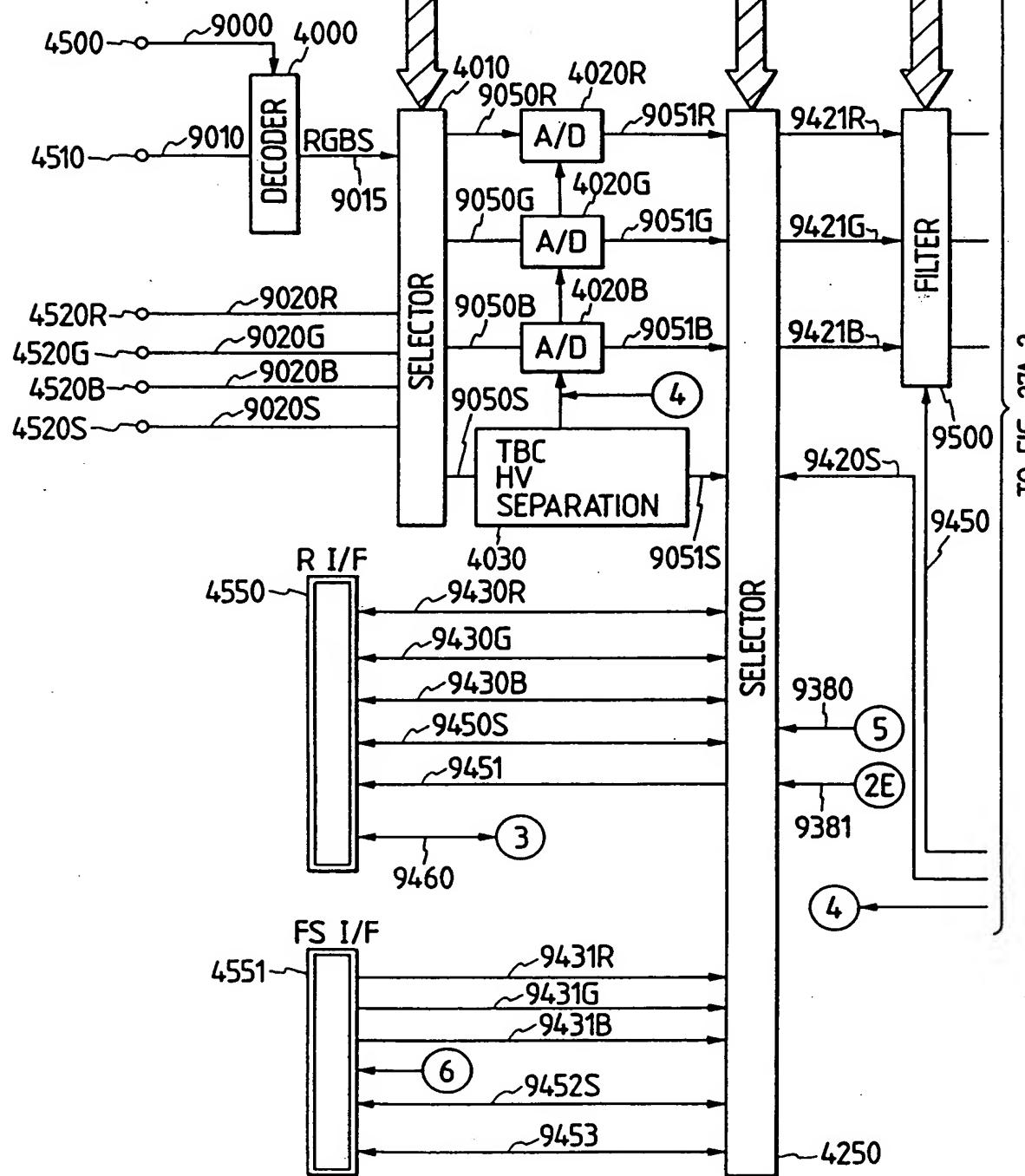


FIG. 27A

FIG. 27A-1	FIG. 27A-2
------------	------------



TO FIG. 27A-2

FIG. 27A-2

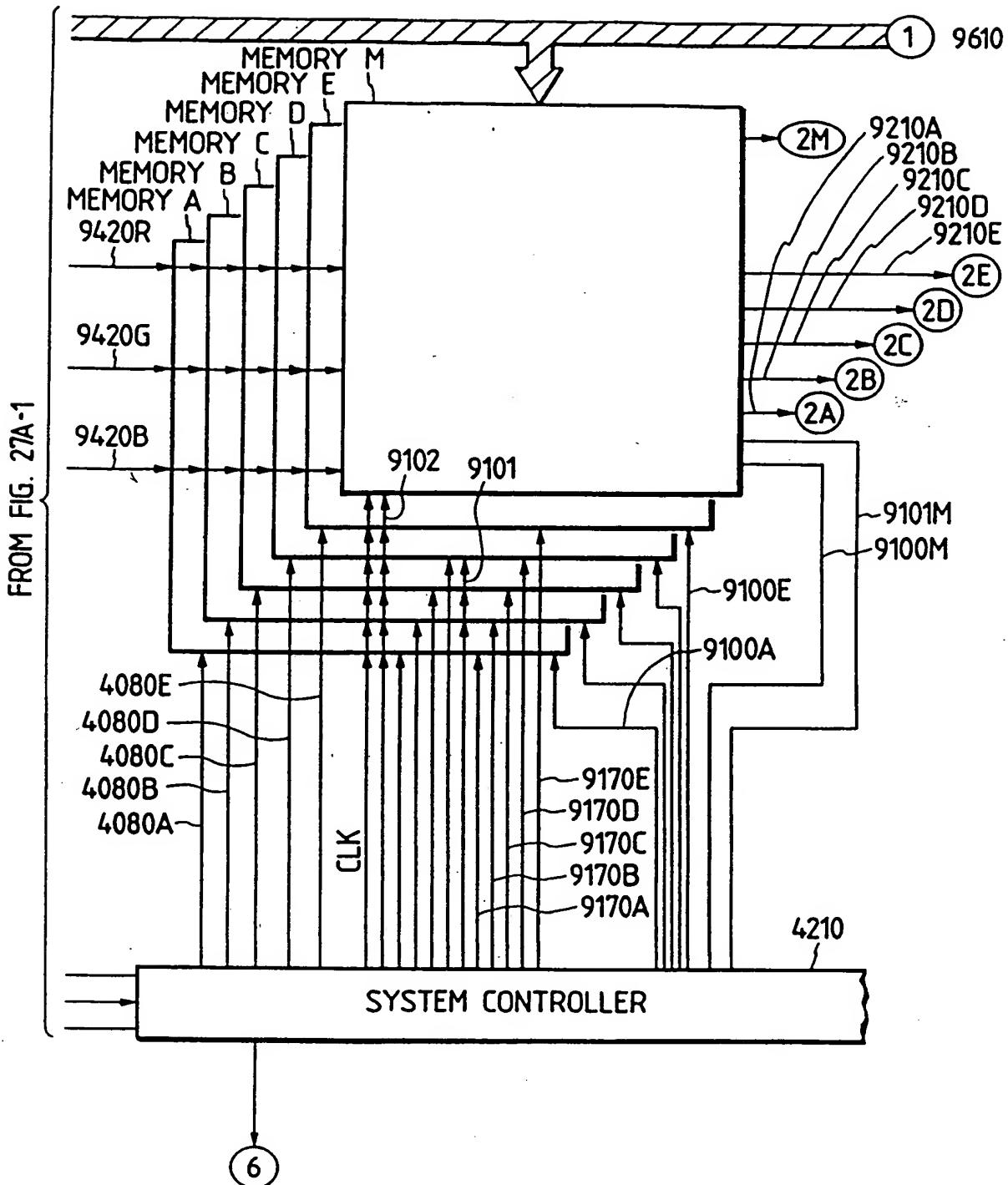


FIG. 27B

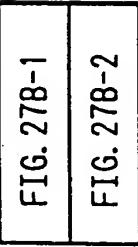
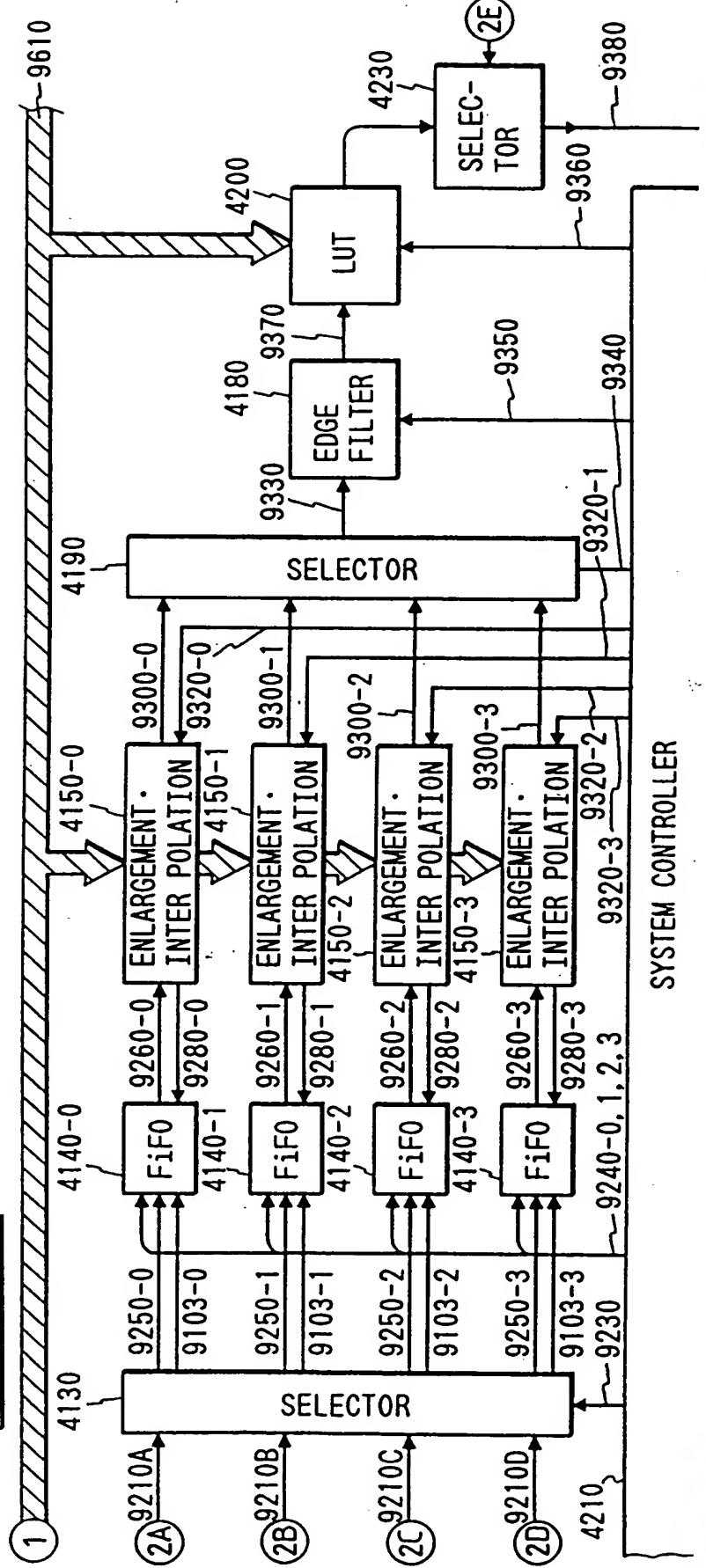


FIG. 27B-1



TO FIG. 27B-2

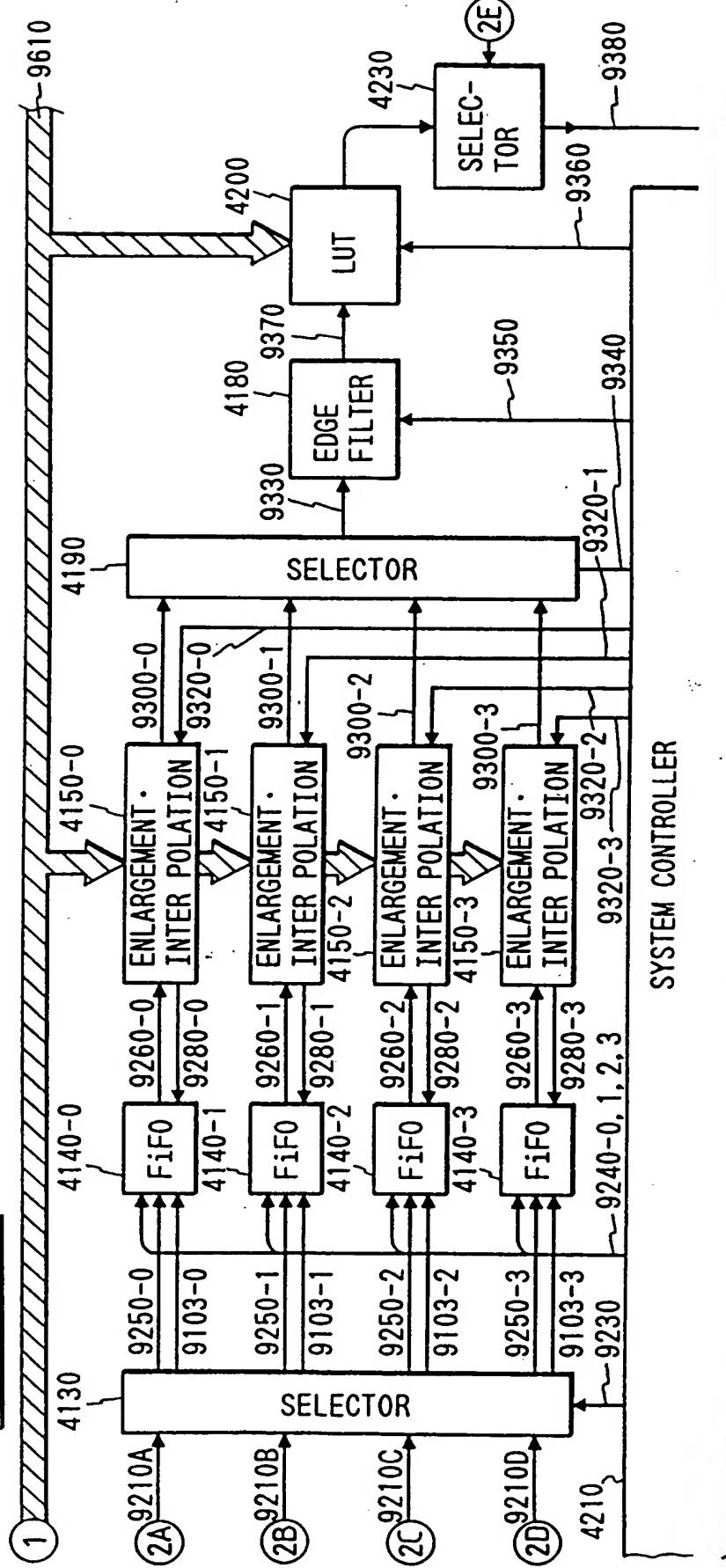


FIG. 27B-2

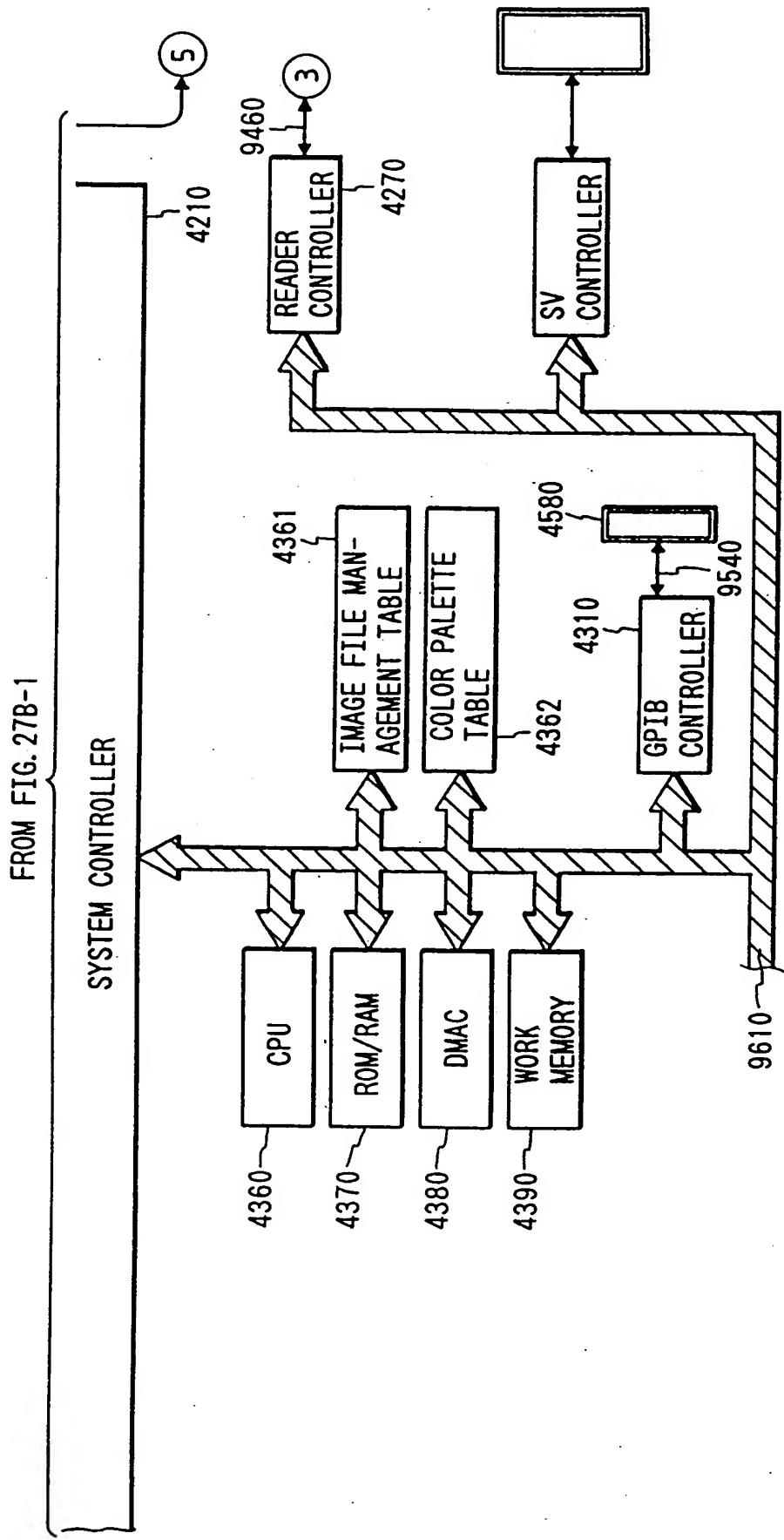


FIG. 27C

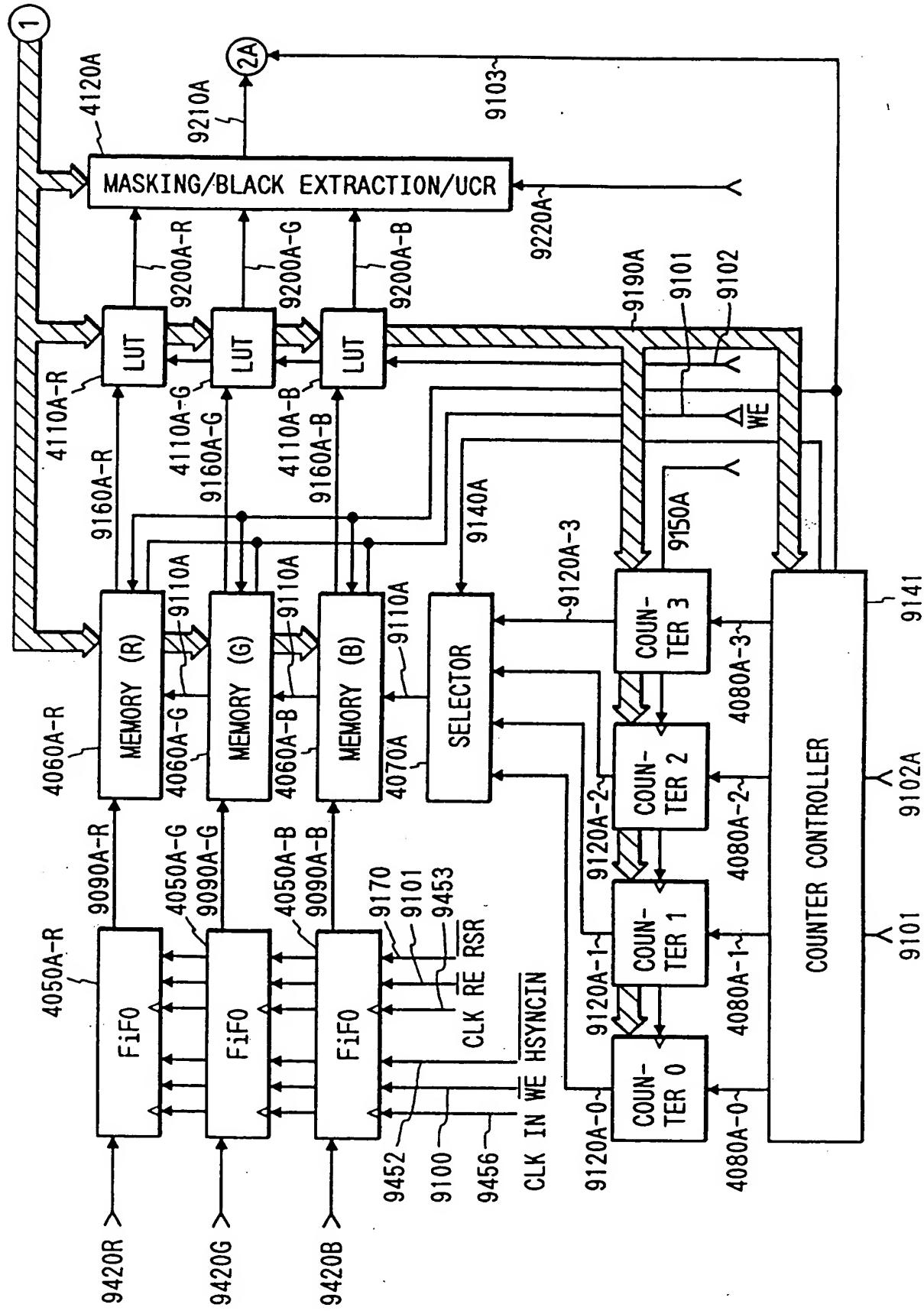


FIG. 27D-1

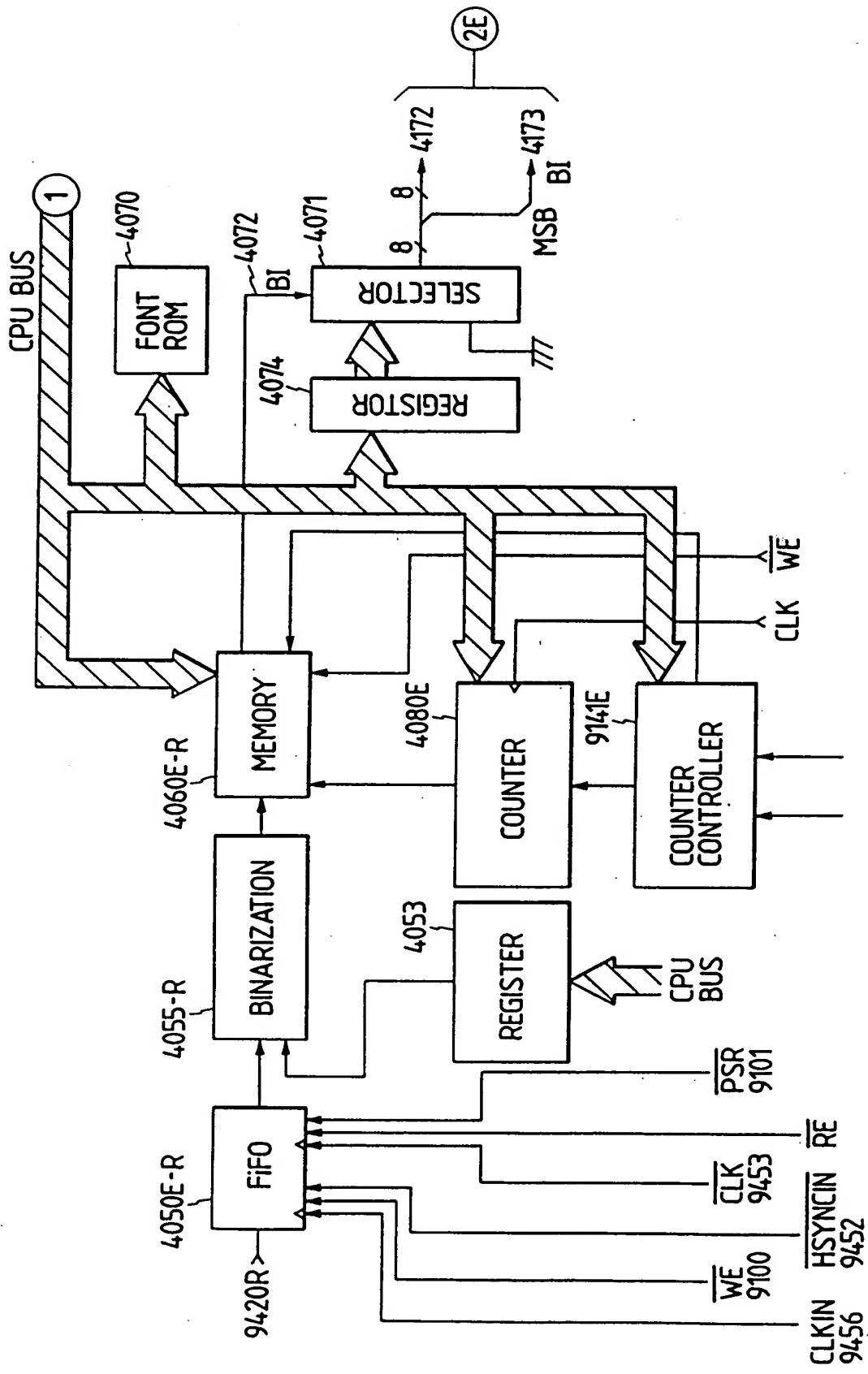


FIG. 27D-2

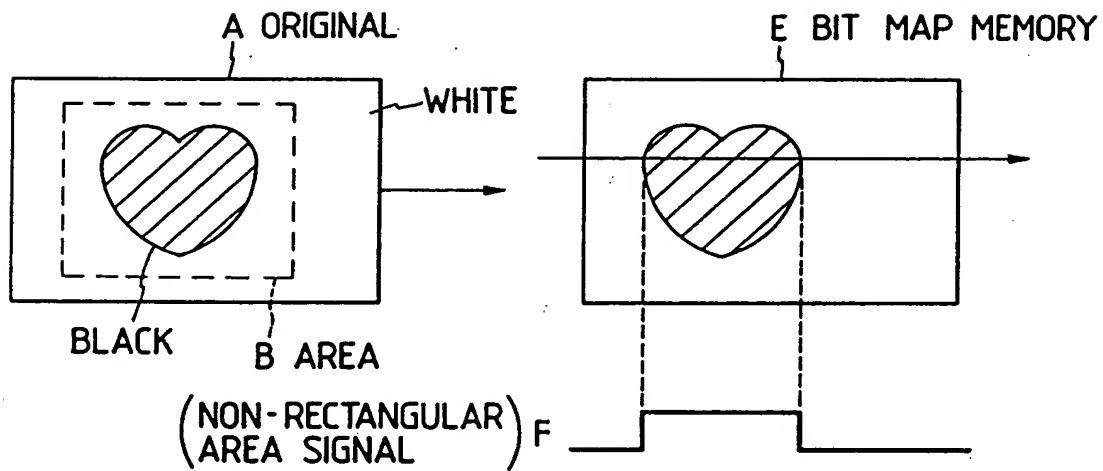


FIG. 27E

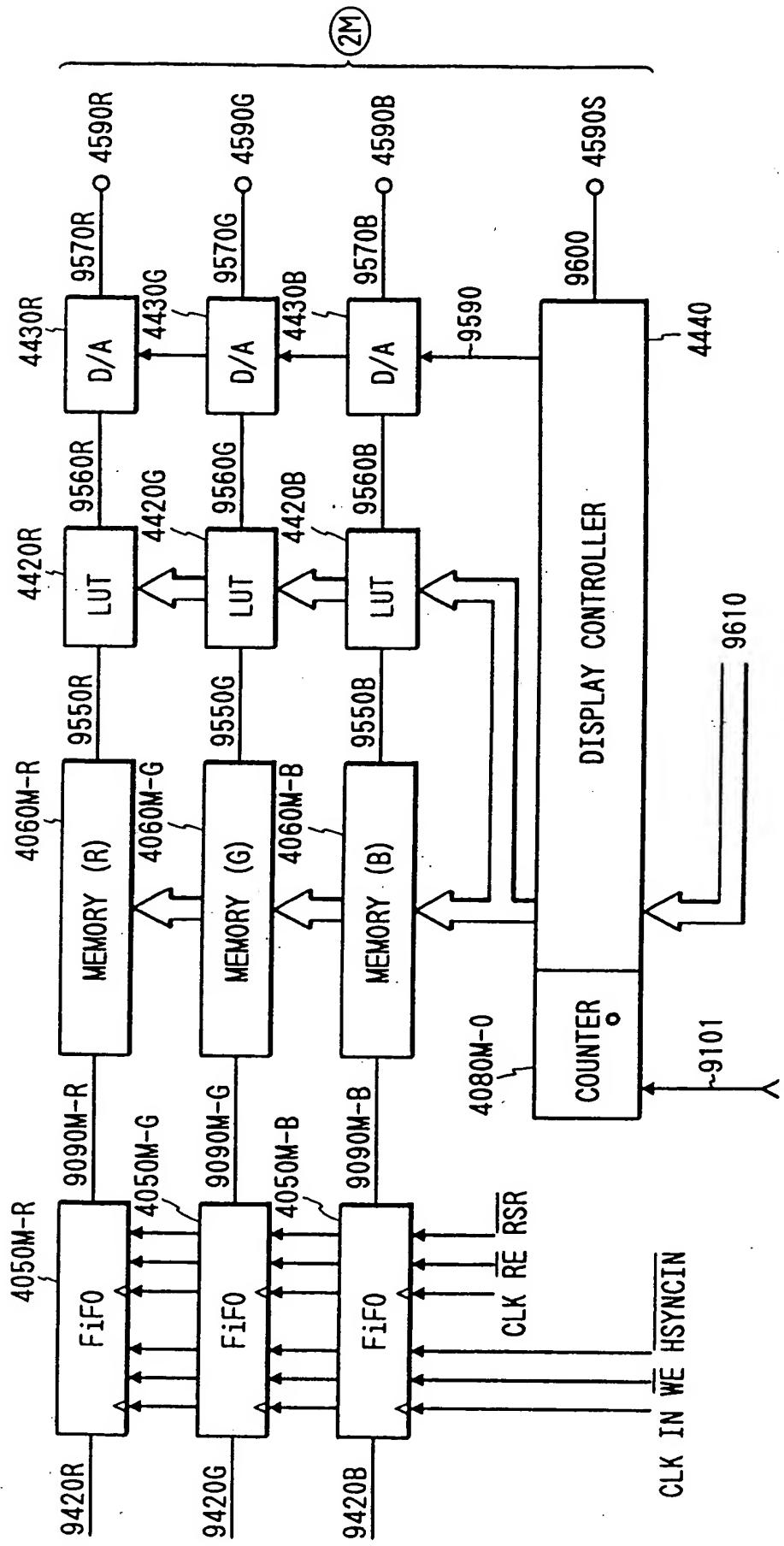


FIG. 27F

(TO EACH SELECTOR AND ENLARGEMENT. INTERPOLATION CKT)

TO EACH MEMORY

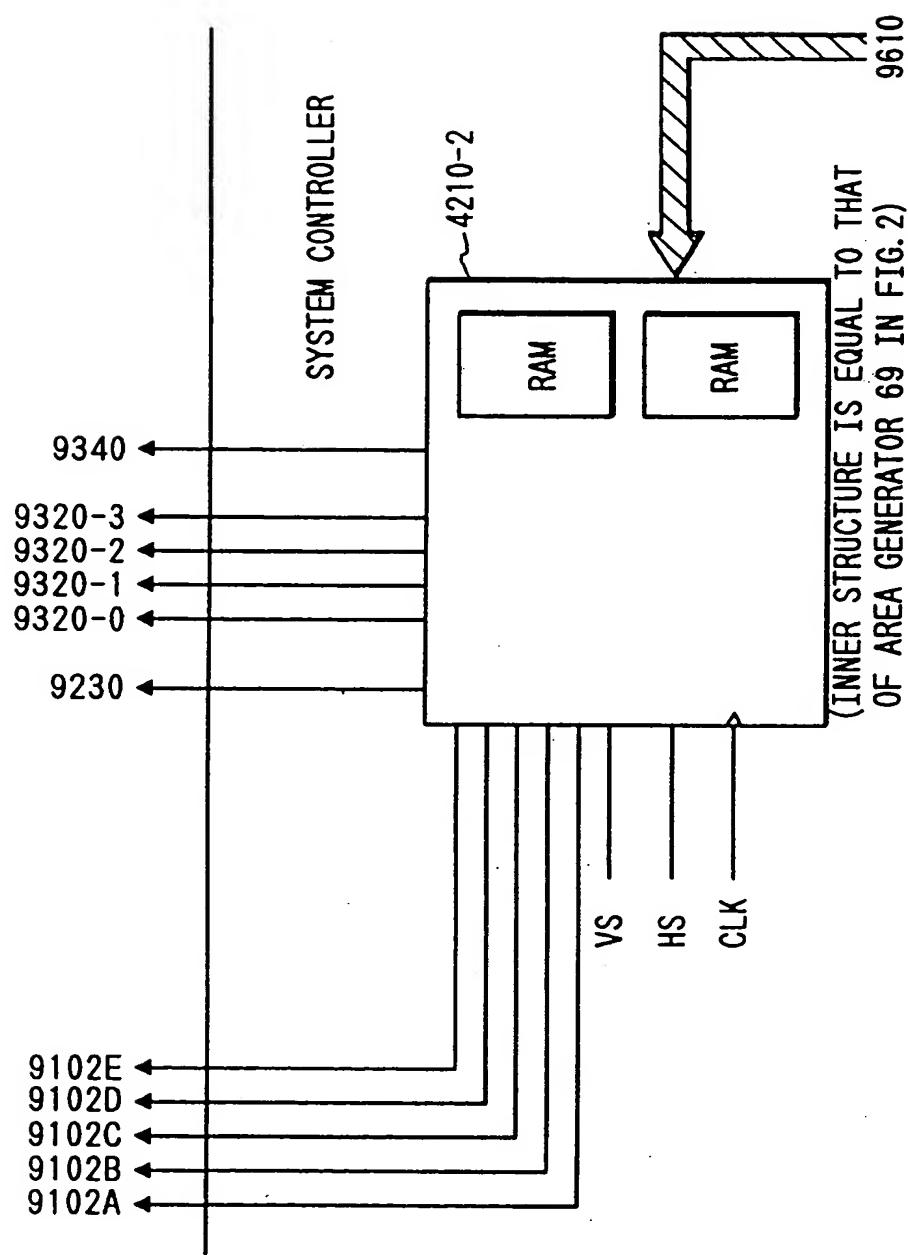


FIG. 28A

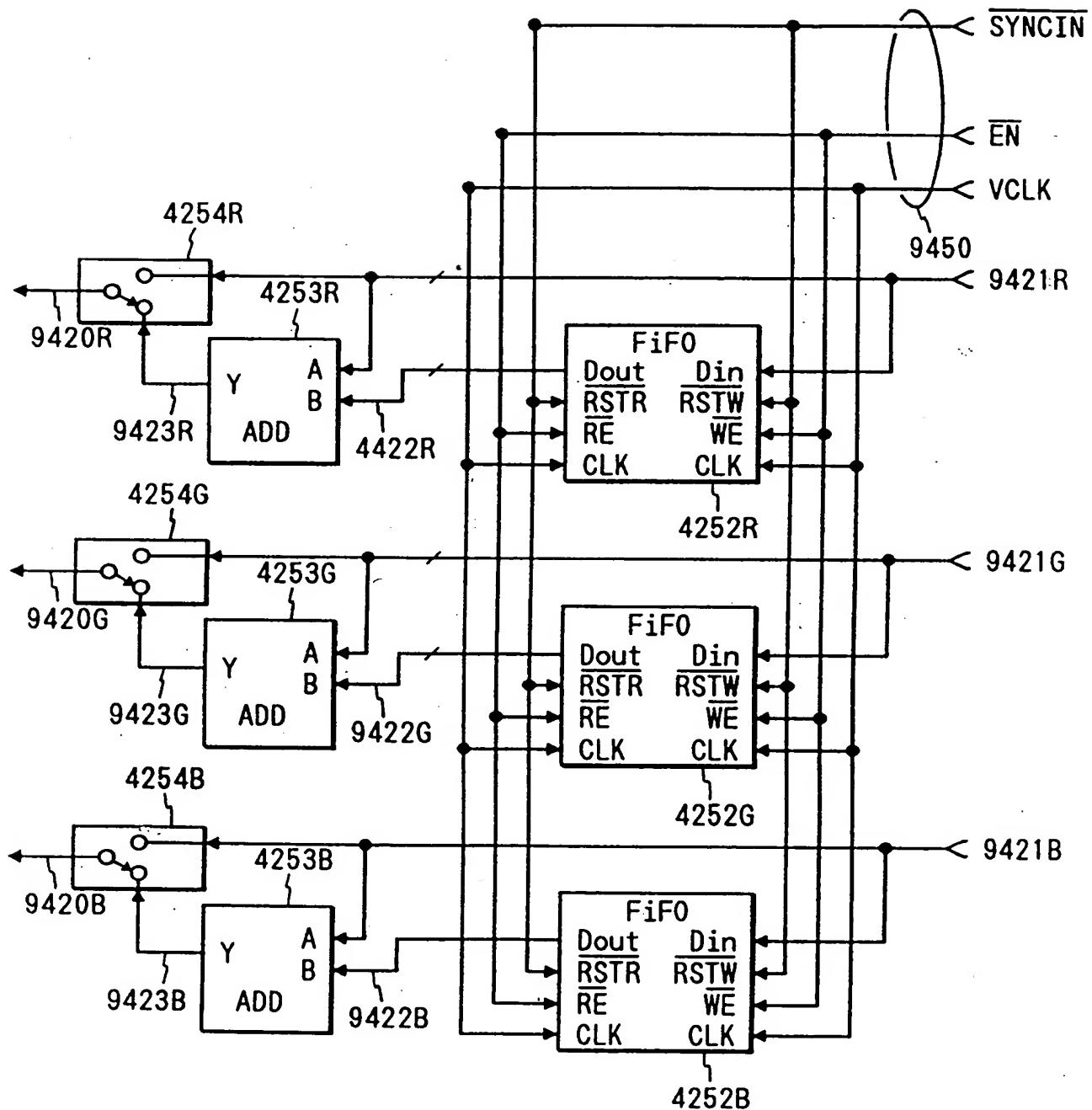


FIG. 28B

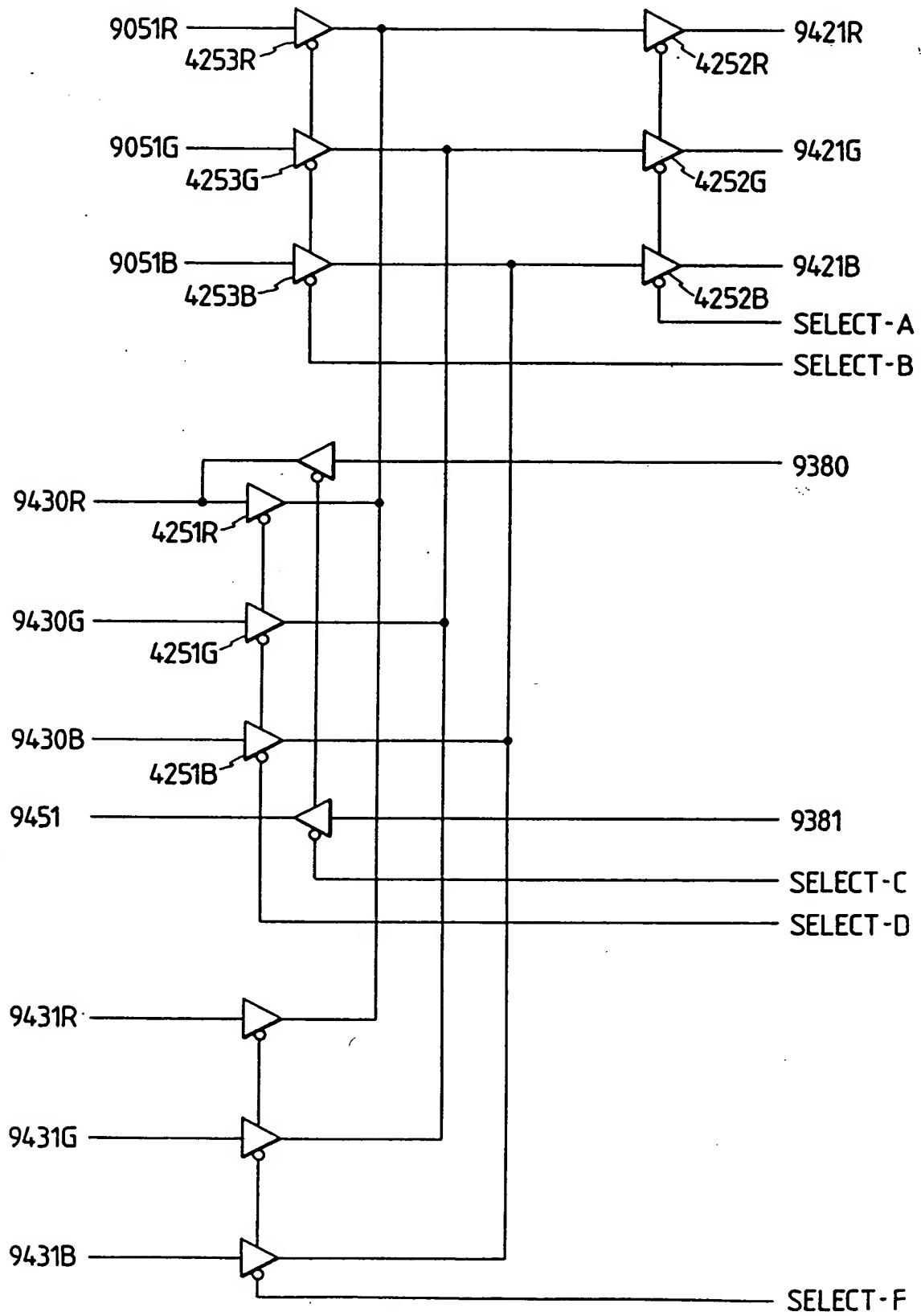


FIG. 28C

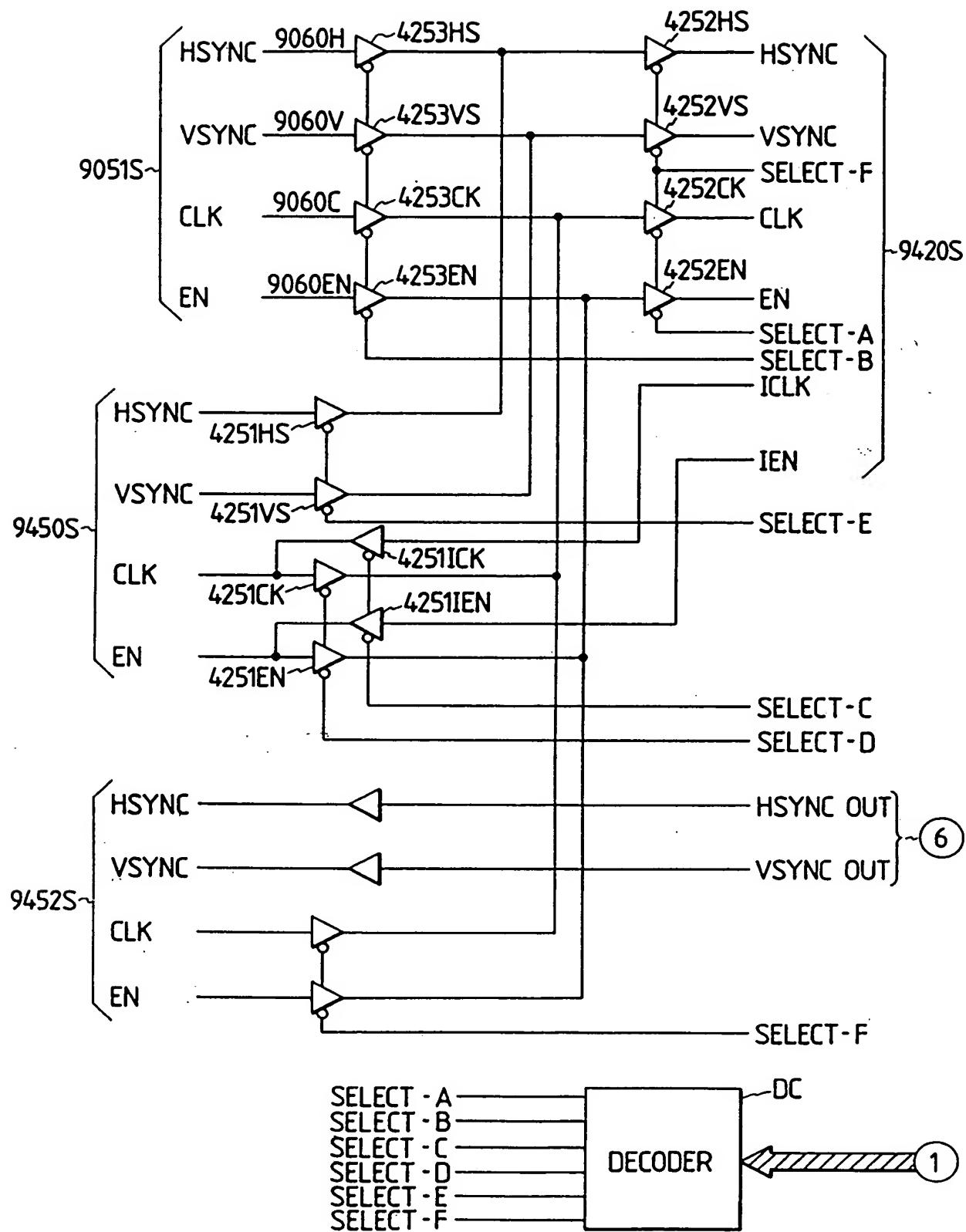
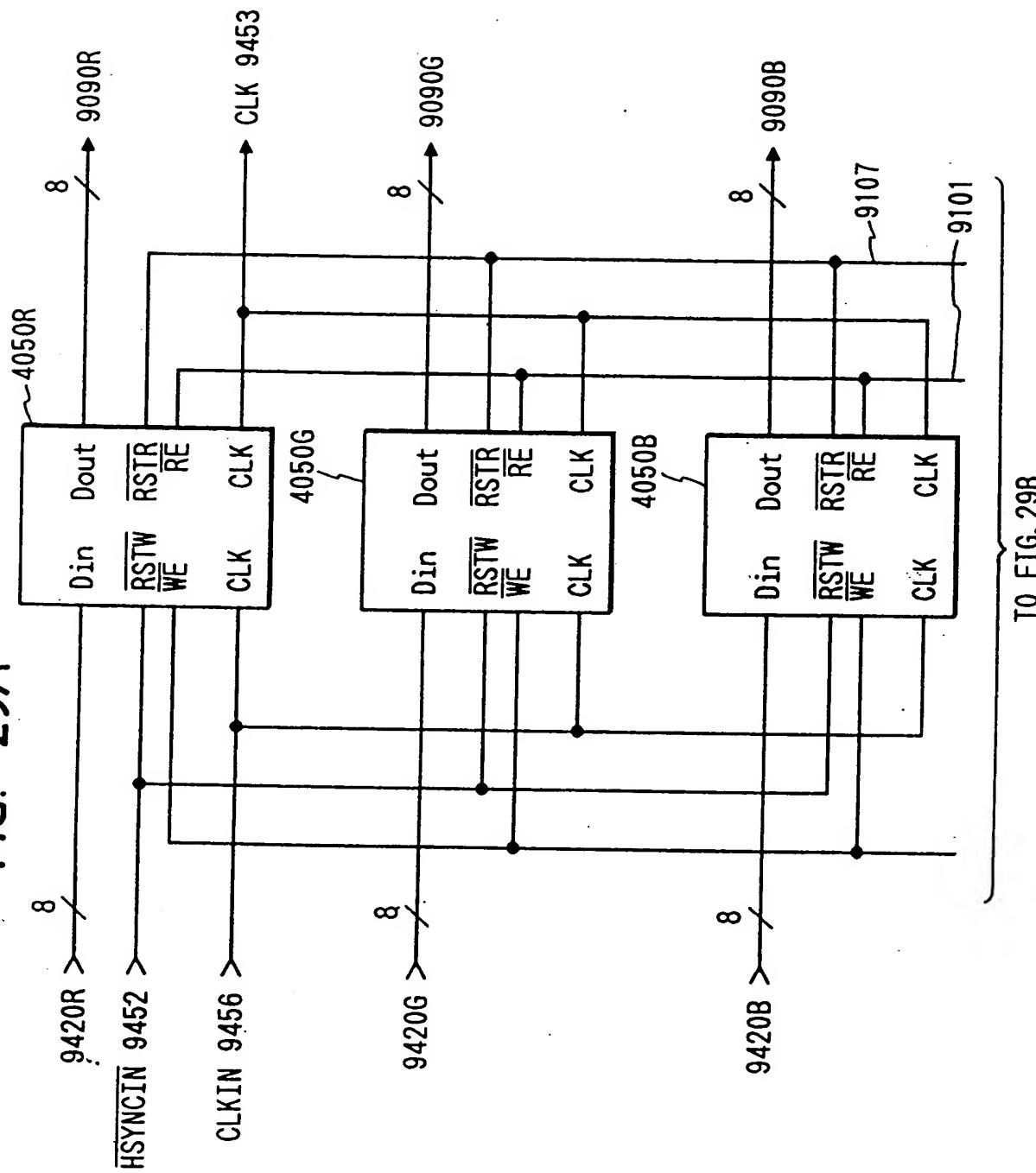


FIG. 29

FIG. 29A
FIG. 29B

FIG. 29A



TO FIG. 29B

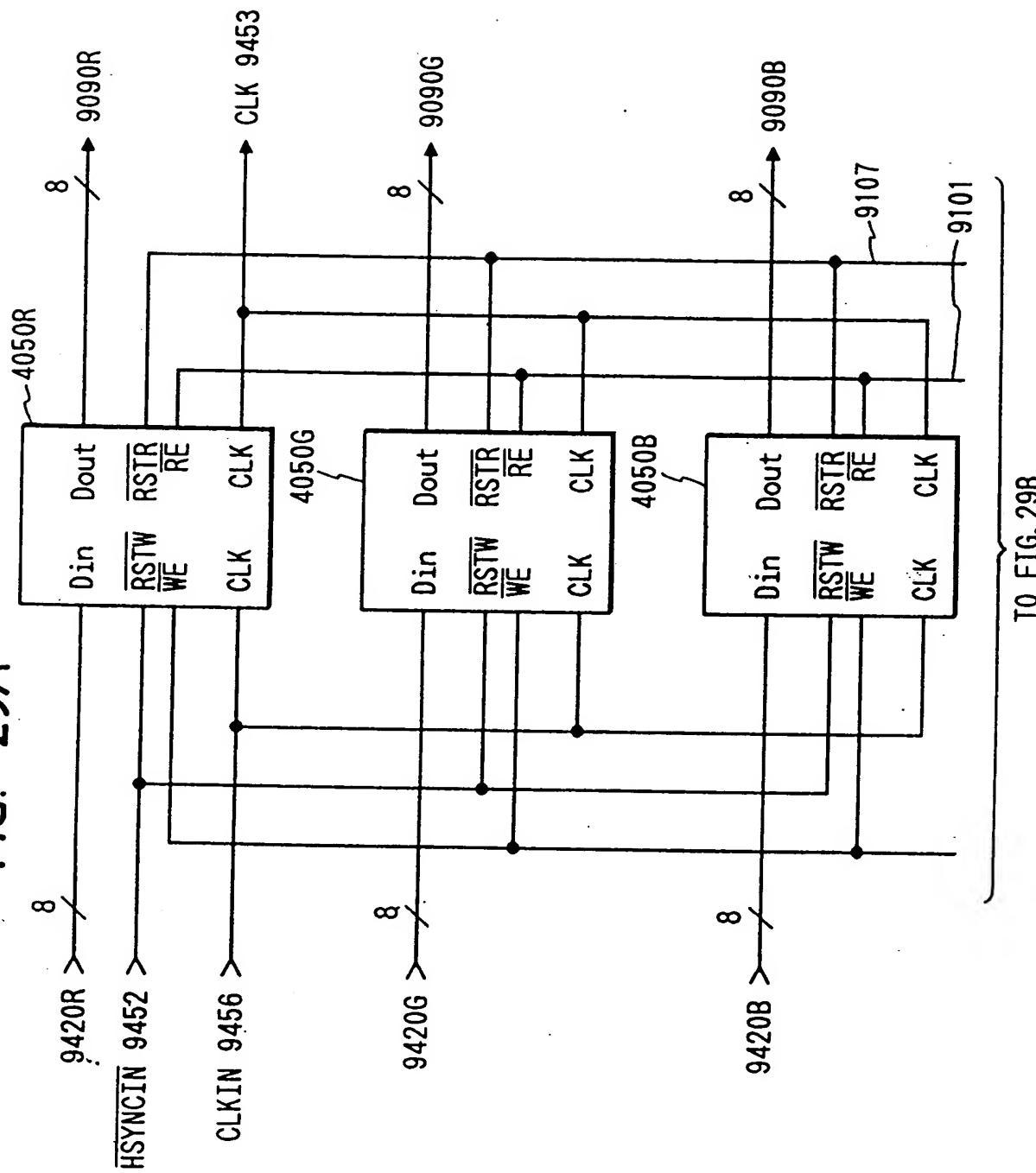


FIG. 29B

FROM FIG. 29A

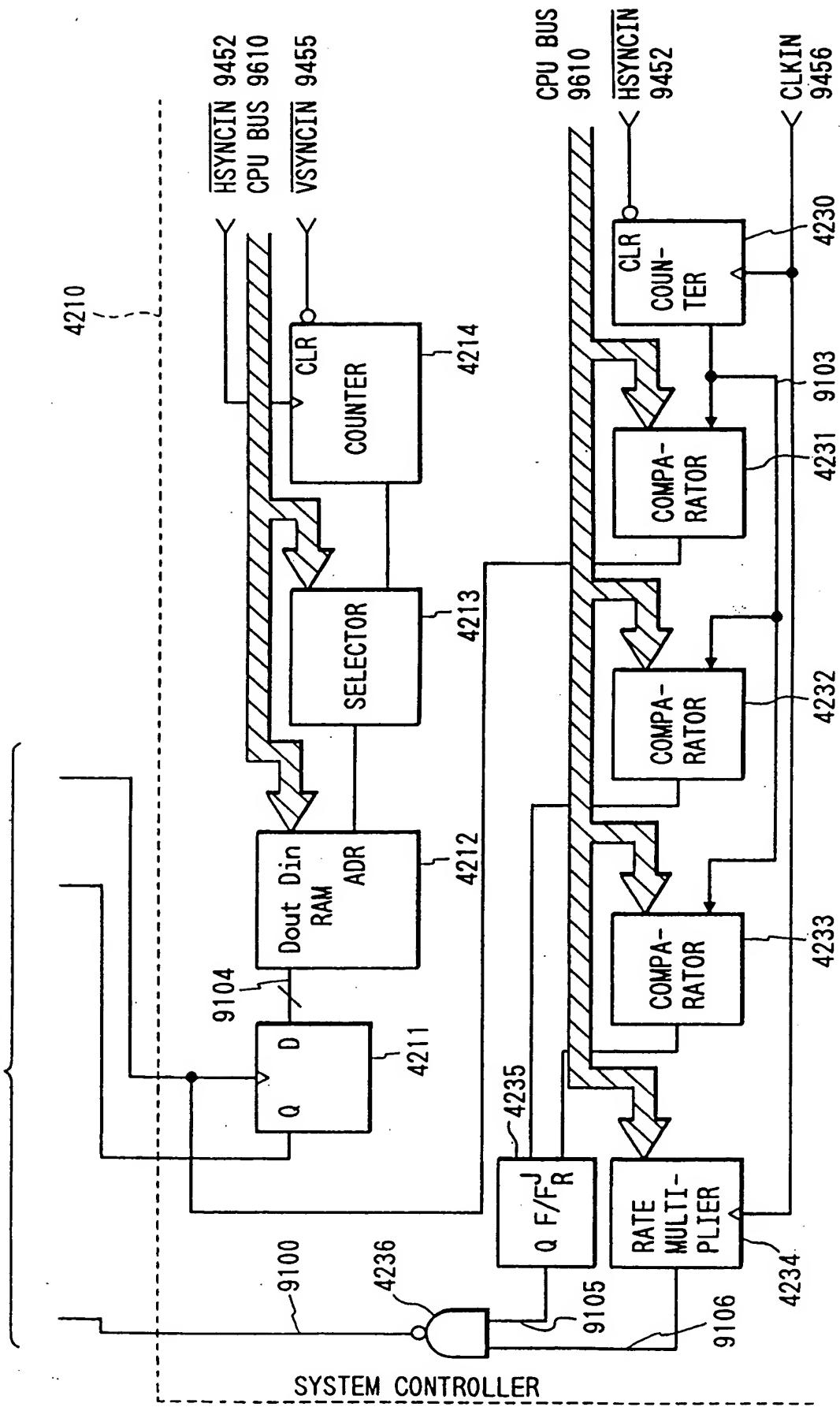


FIG. 30

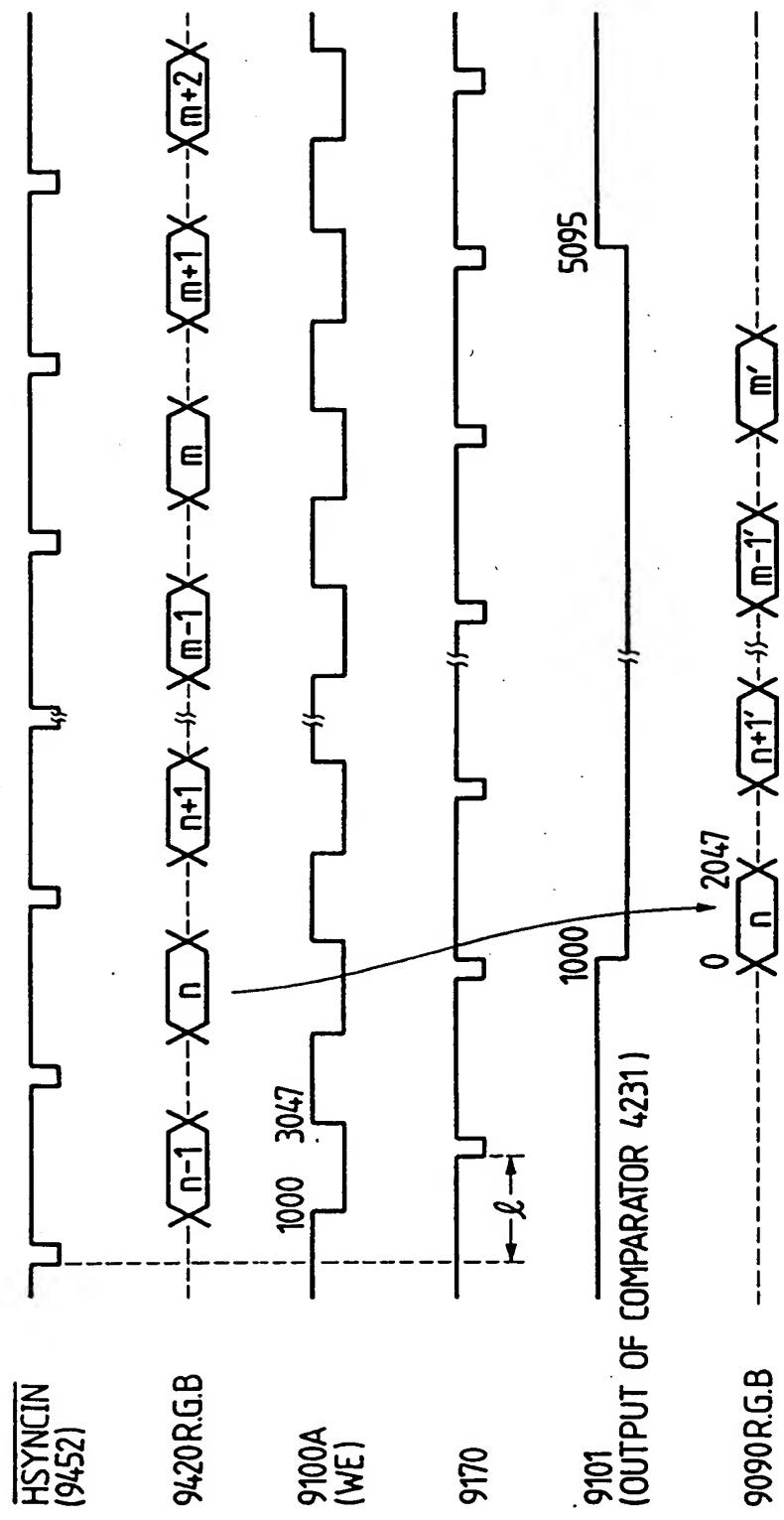


FIG. 31

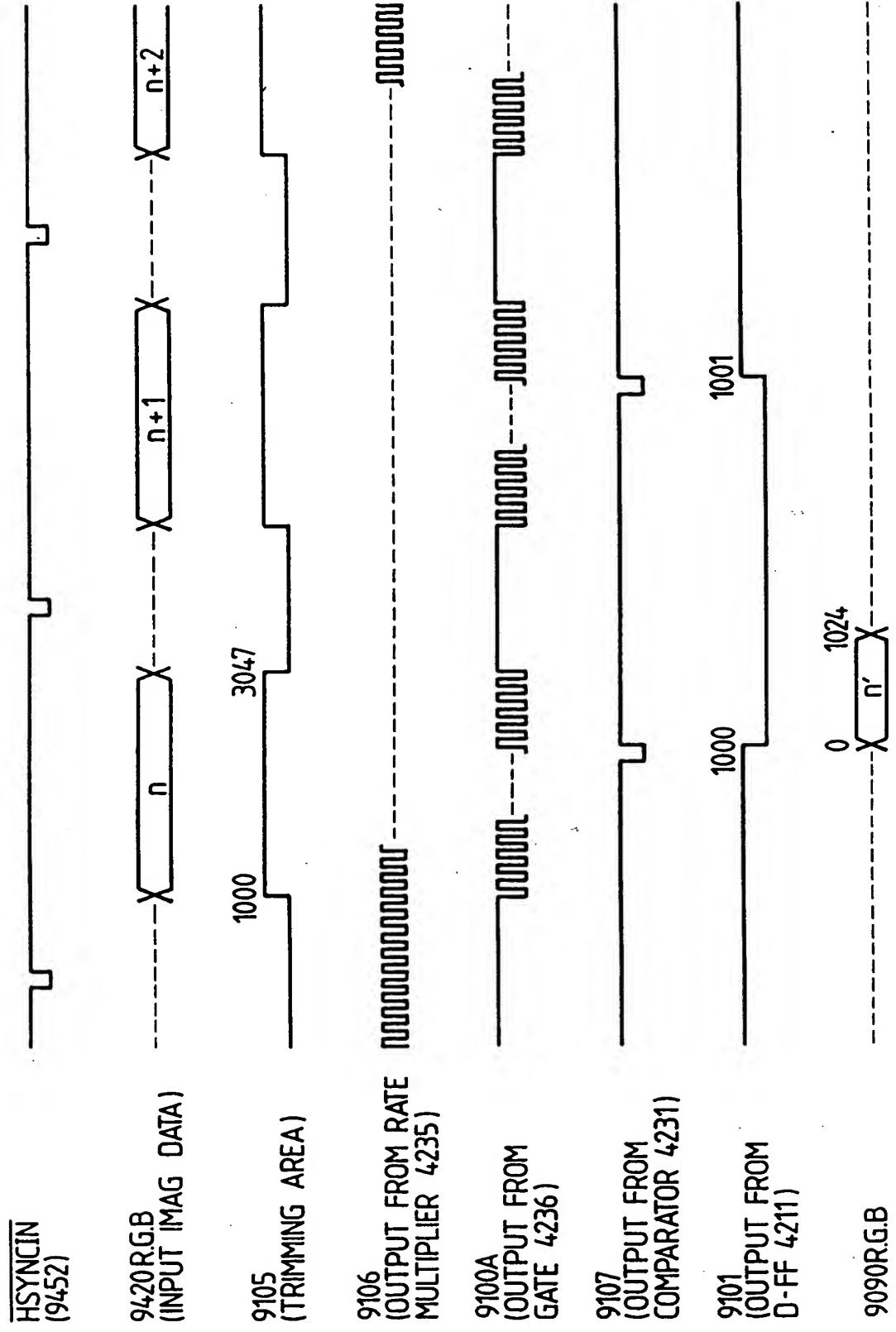


FIG. 32

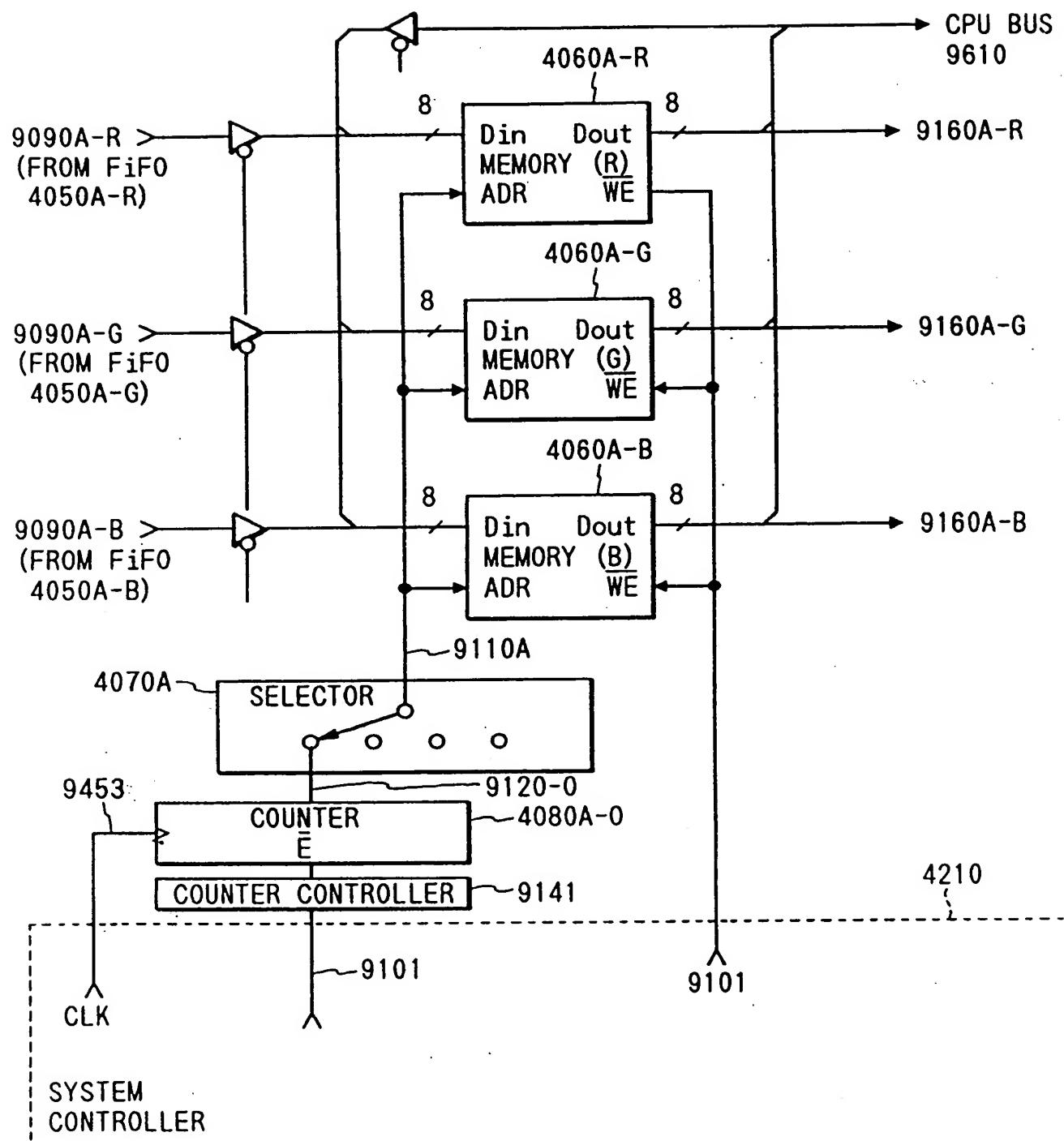


FIG. 33

	MEMORY (R) 4060R	MEMORY (G) 4060G	MEMORY (B) 4060B
2M			
1.875M	IMAGE 15	IMAGE 15	IMAGE 15
1.75M	IMAGE 14	IMAGE 14	IMAGE 14
1.625M	IMAGE 13	IMAGE 13	IMAGE 13
1.5M	IMAGE 12	IMAGE 12	IMAGE 12
1.375M	IMAGE 11	IMAGE 11	IMAGE 11
1.25M	IMAGE 10	IMAGE 10	IMAGE 10
1.125M	IMAGE 9	IMAGE 9	IMAGE 9
1M	IMAGE 8	IMAGE 8	IMAGE 8
0.875M	IMAGE 7	IMAGE 7	IMAGE 7
0.75M	IMAGE 6	IMAGE 6	IMAGE 6
0.625M	IMAGE 5	IMAGE 5	IMAGE 5
0.5M	IMAGE 4	IMAGE 4	IMAGE 4
0.375M	IMAGE 3	IMAGE 3	IMAGE 3
0.25M	IMAGE 2	IMAGE 2	IMAGE 2
0.125M	IMAGE 1	IMAGE 1	IMAGE 1
0	IMAGE 0	IMAGE 0	IMAGE 0

FIG. 34

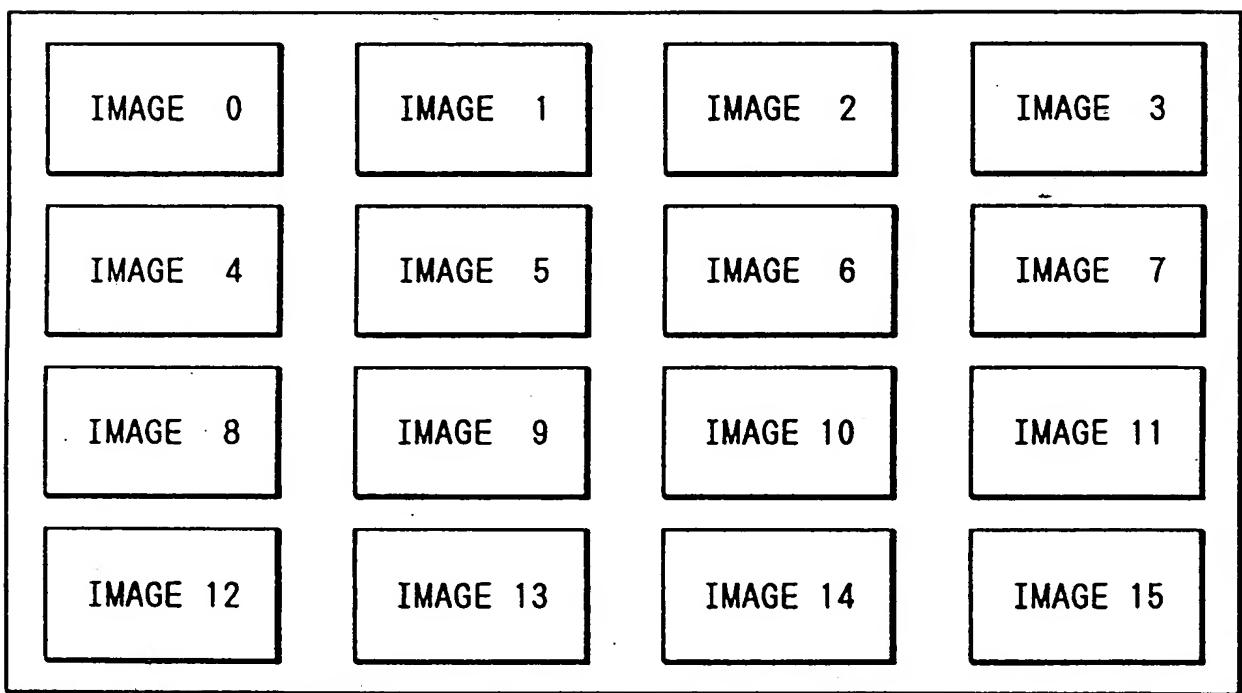


FIG. 35

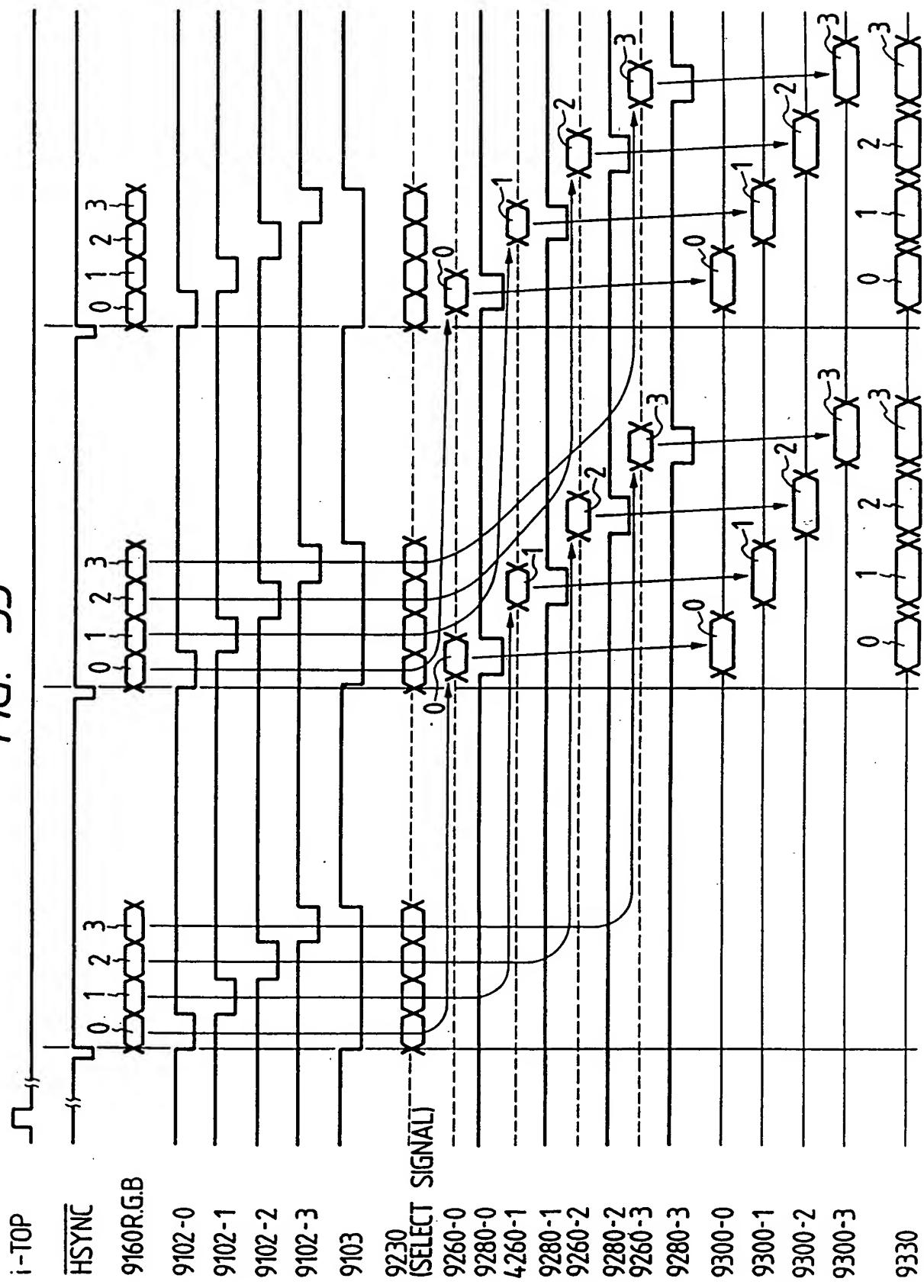


FIG. 36

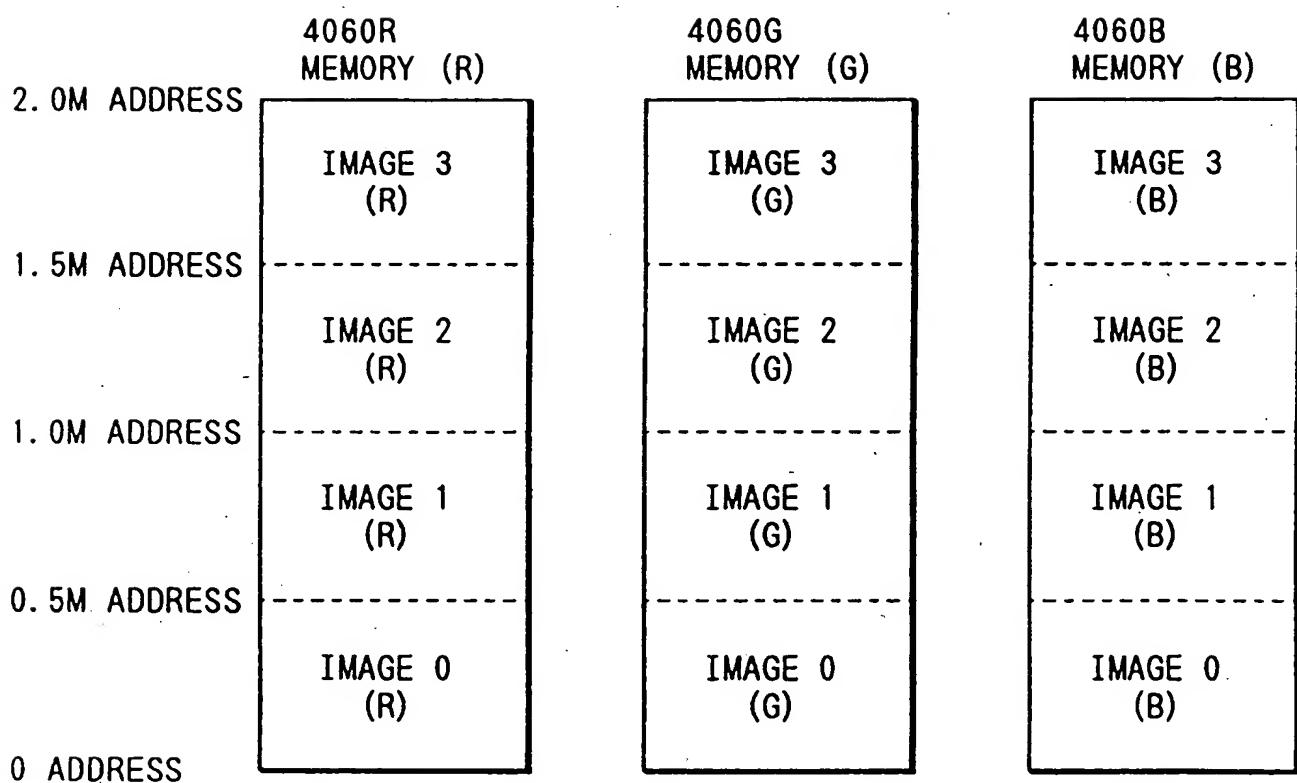


FIG. 37A

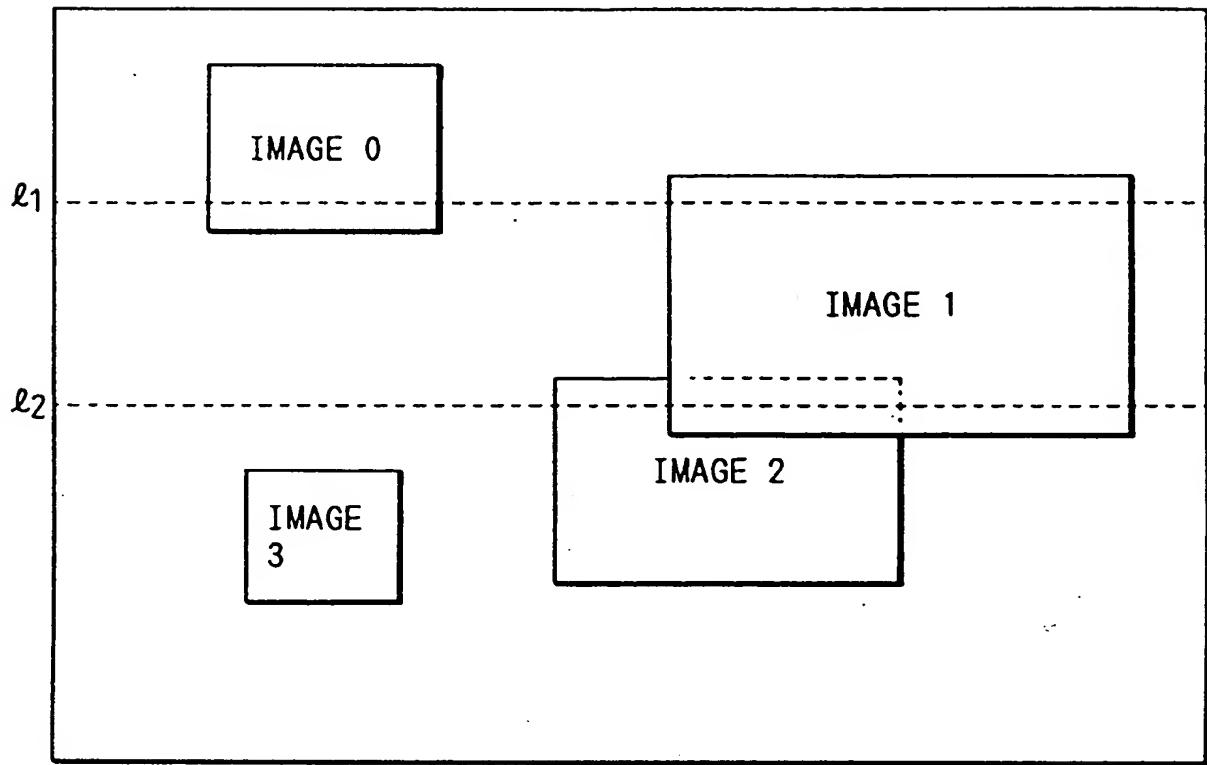


FIG. 37B

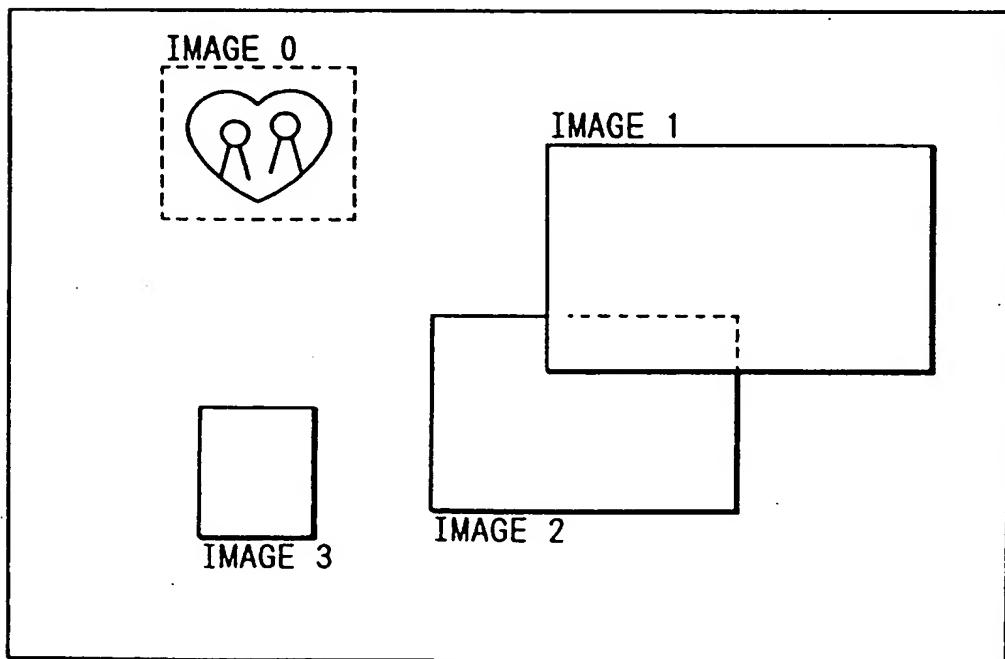


FIG. 37C

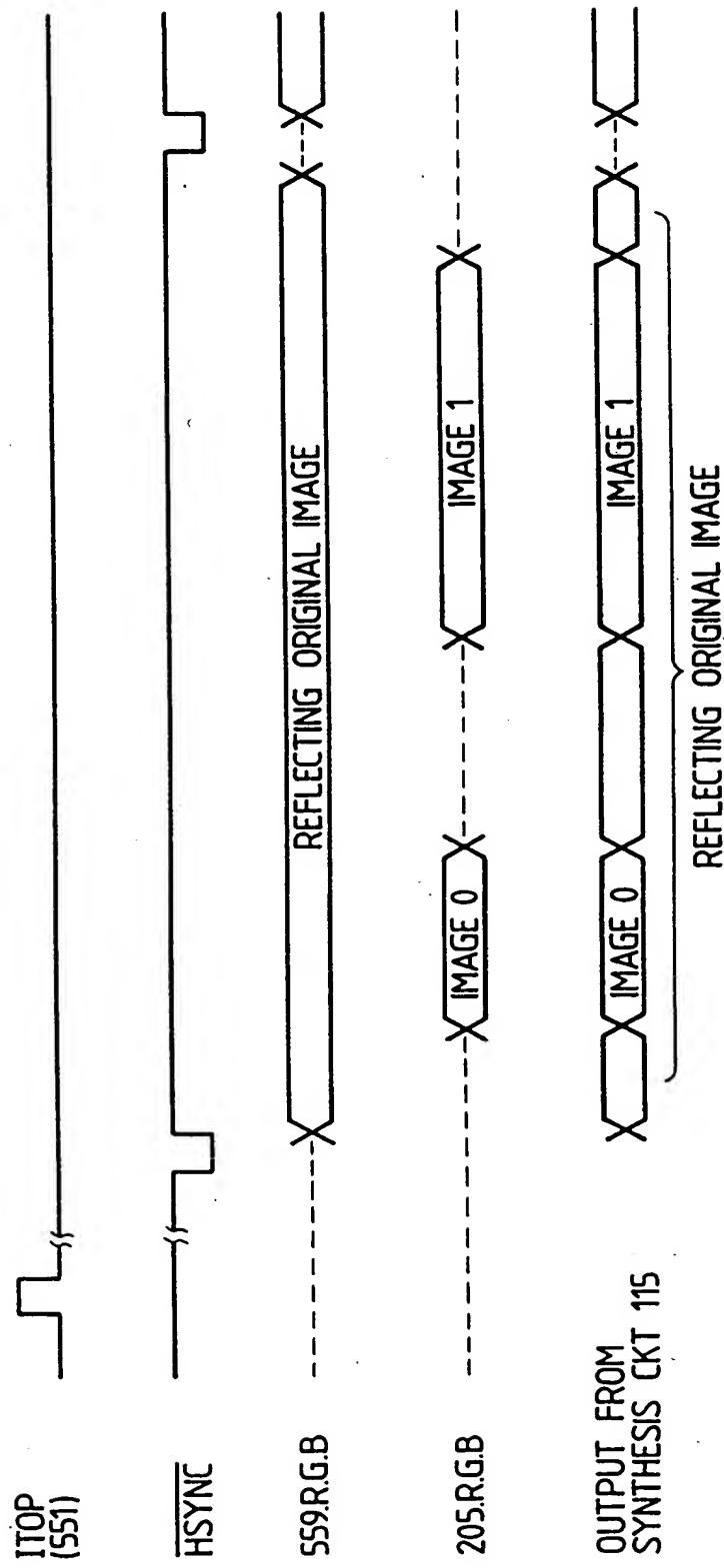


FIG. 37D

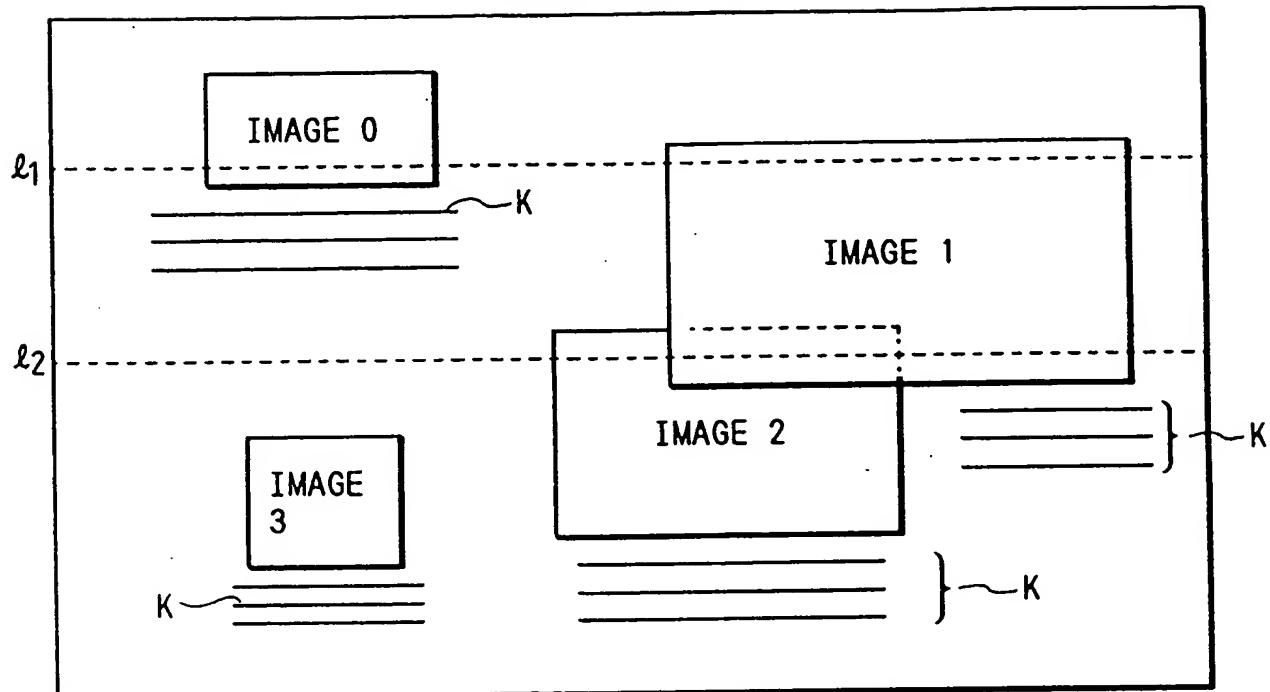


FIG. 37E

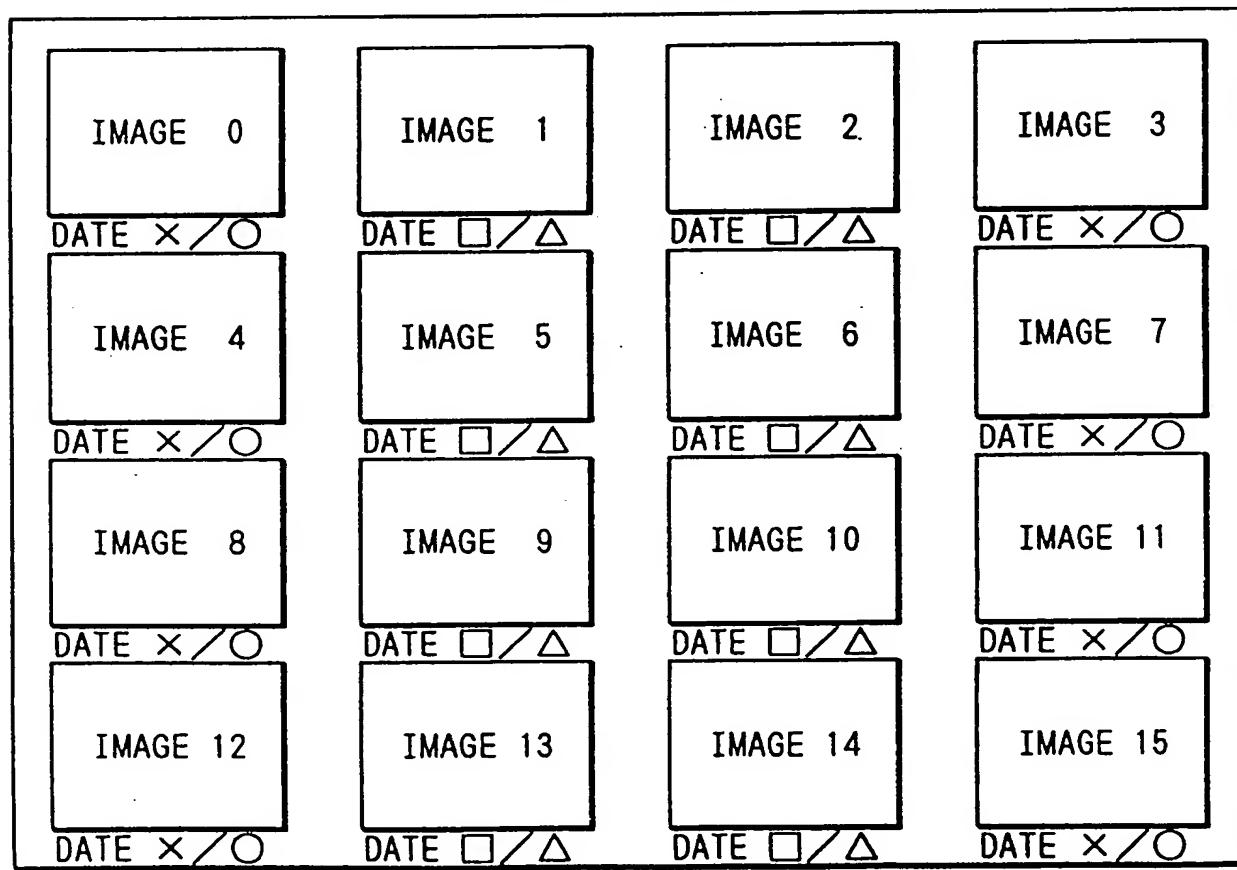


FIG. 37F

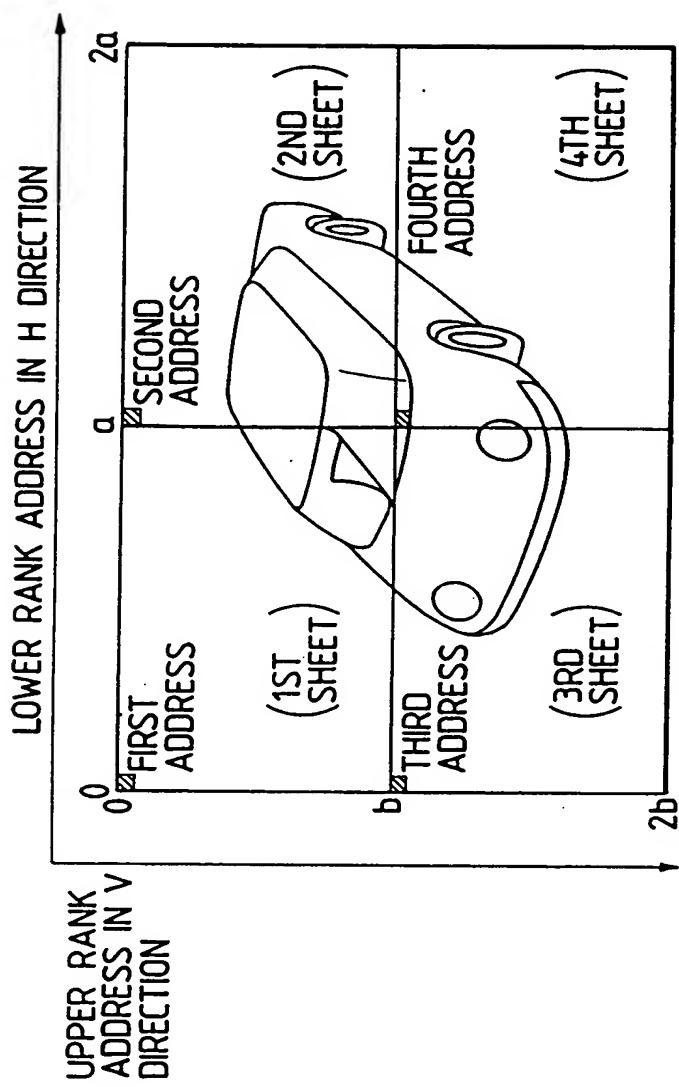


FIG. 37G

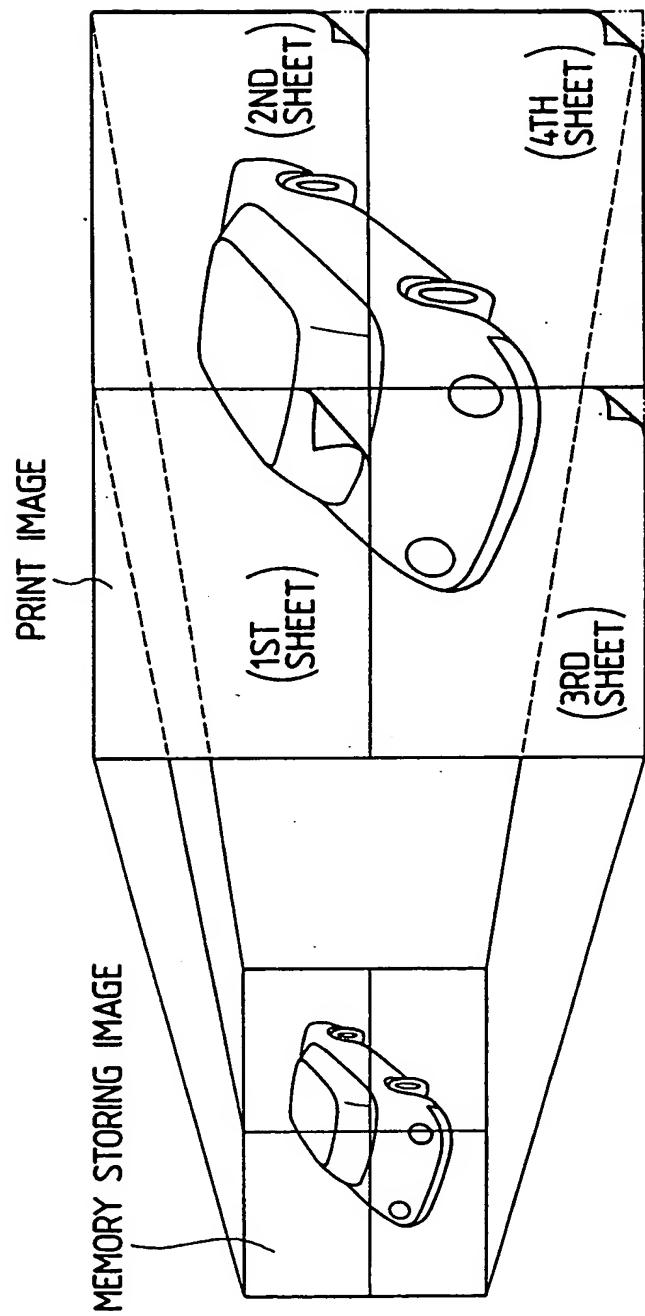


FIG. 38

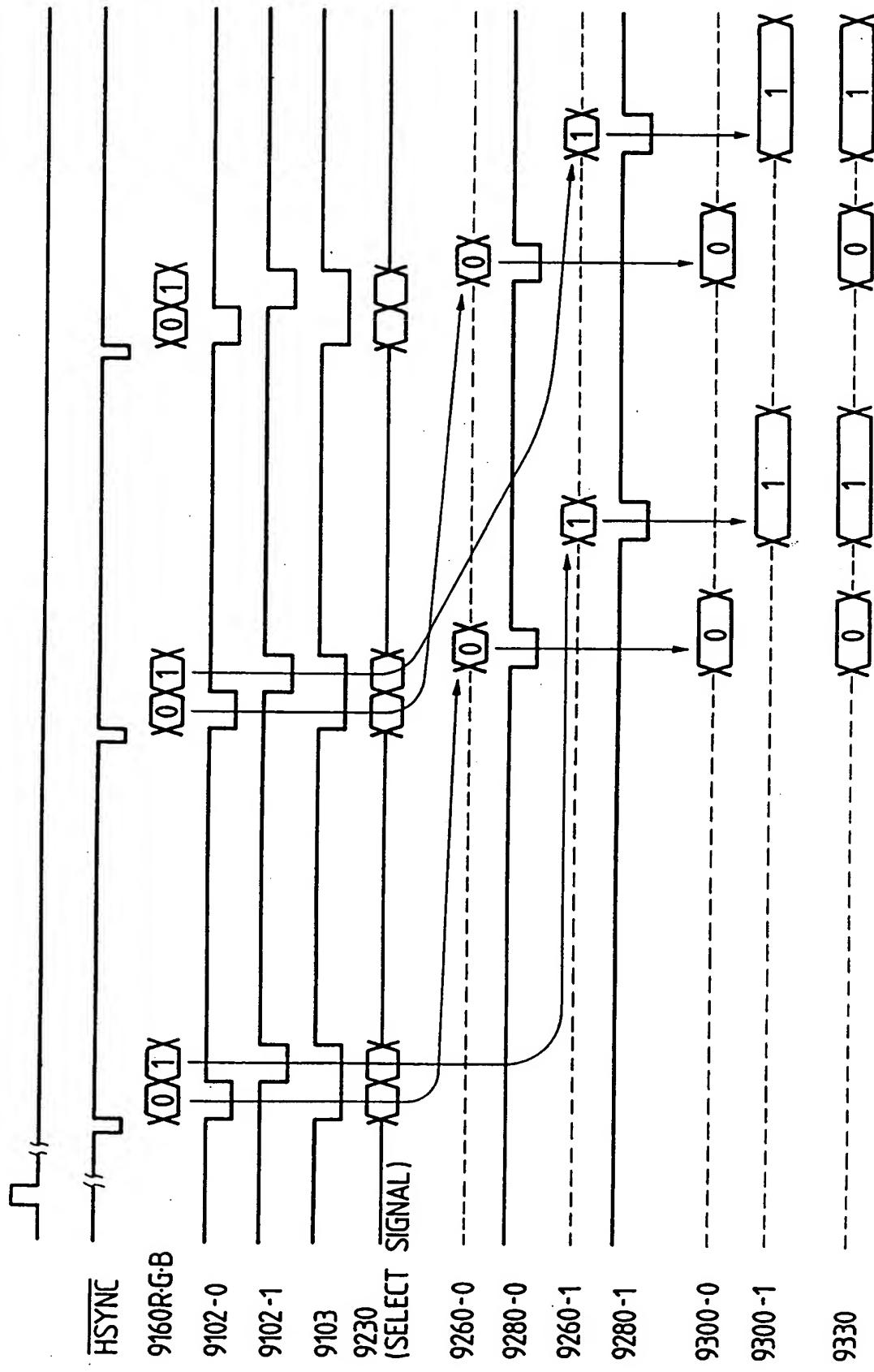
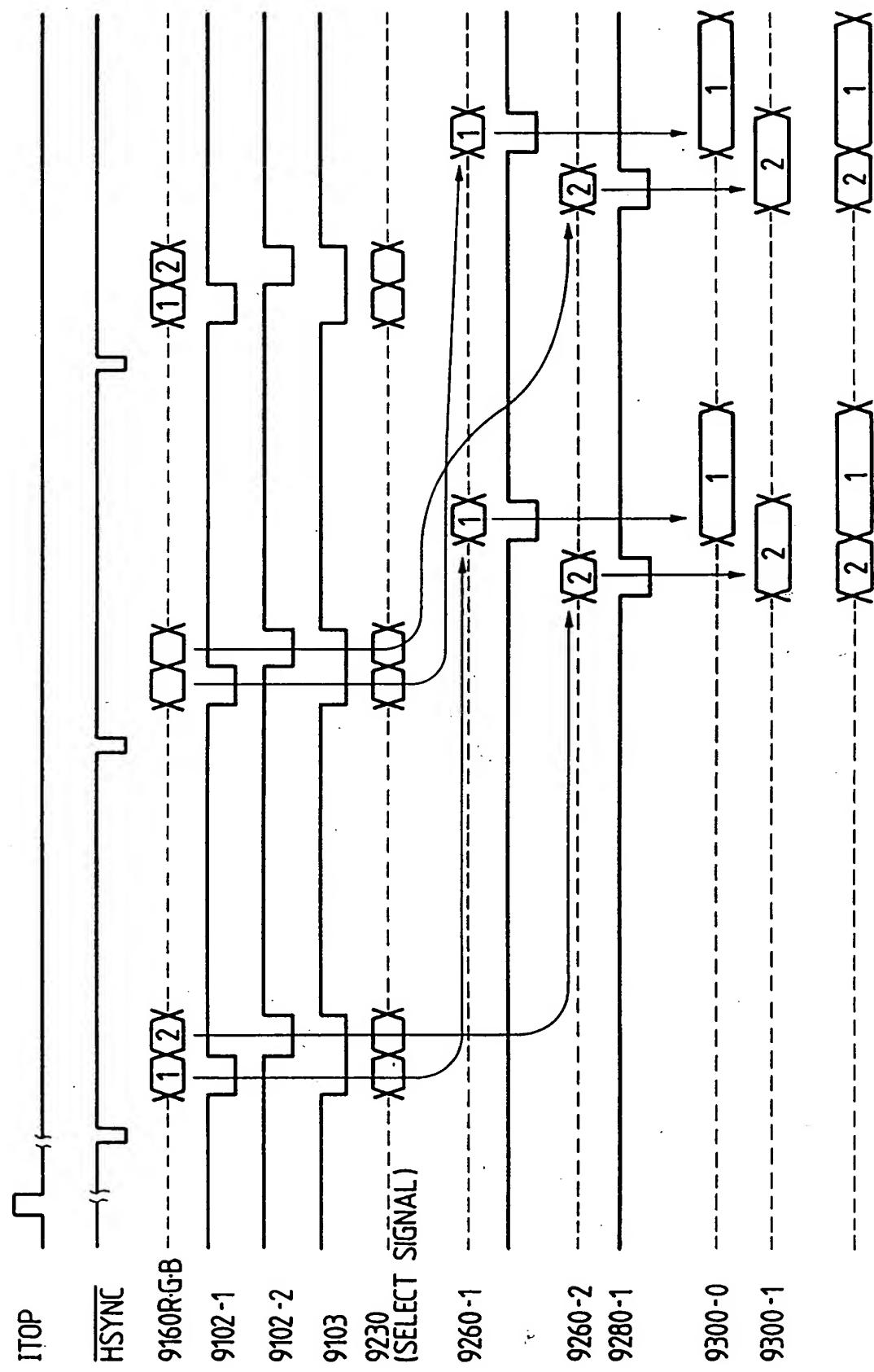


FIG. 39

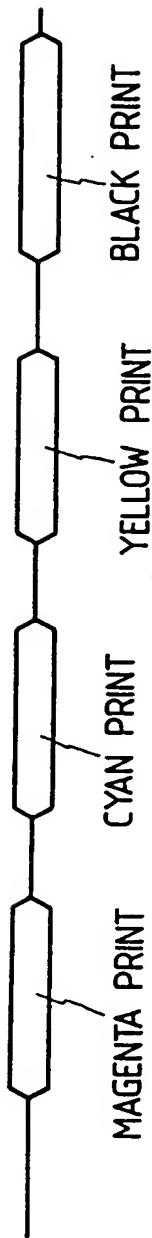


START

ITOP
(55)

FIG. 40

IMAGE
FORMING
PROCESS



BLACK PRINT

3020

3030

BI

ZE

FIG. 41

REG 1

3010

REG 2

3060

3050

3040

5

A

S

B

9380

IMAGE DATA

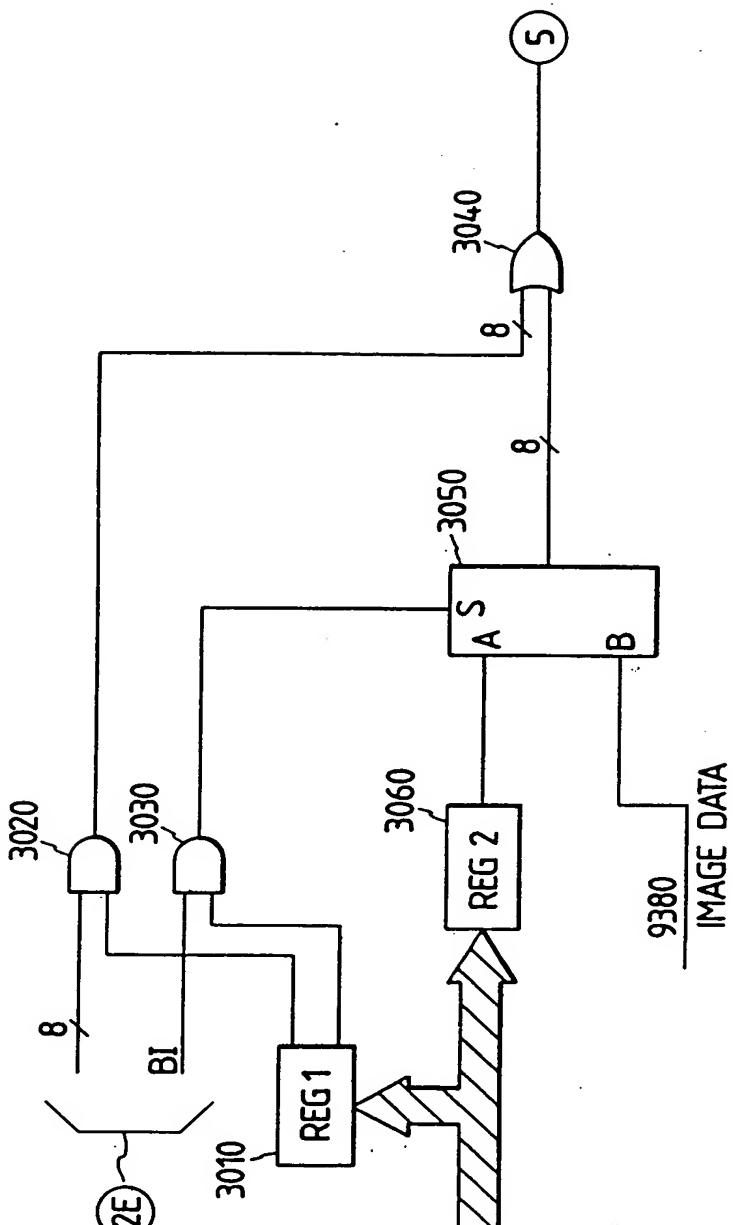


FIG. 42

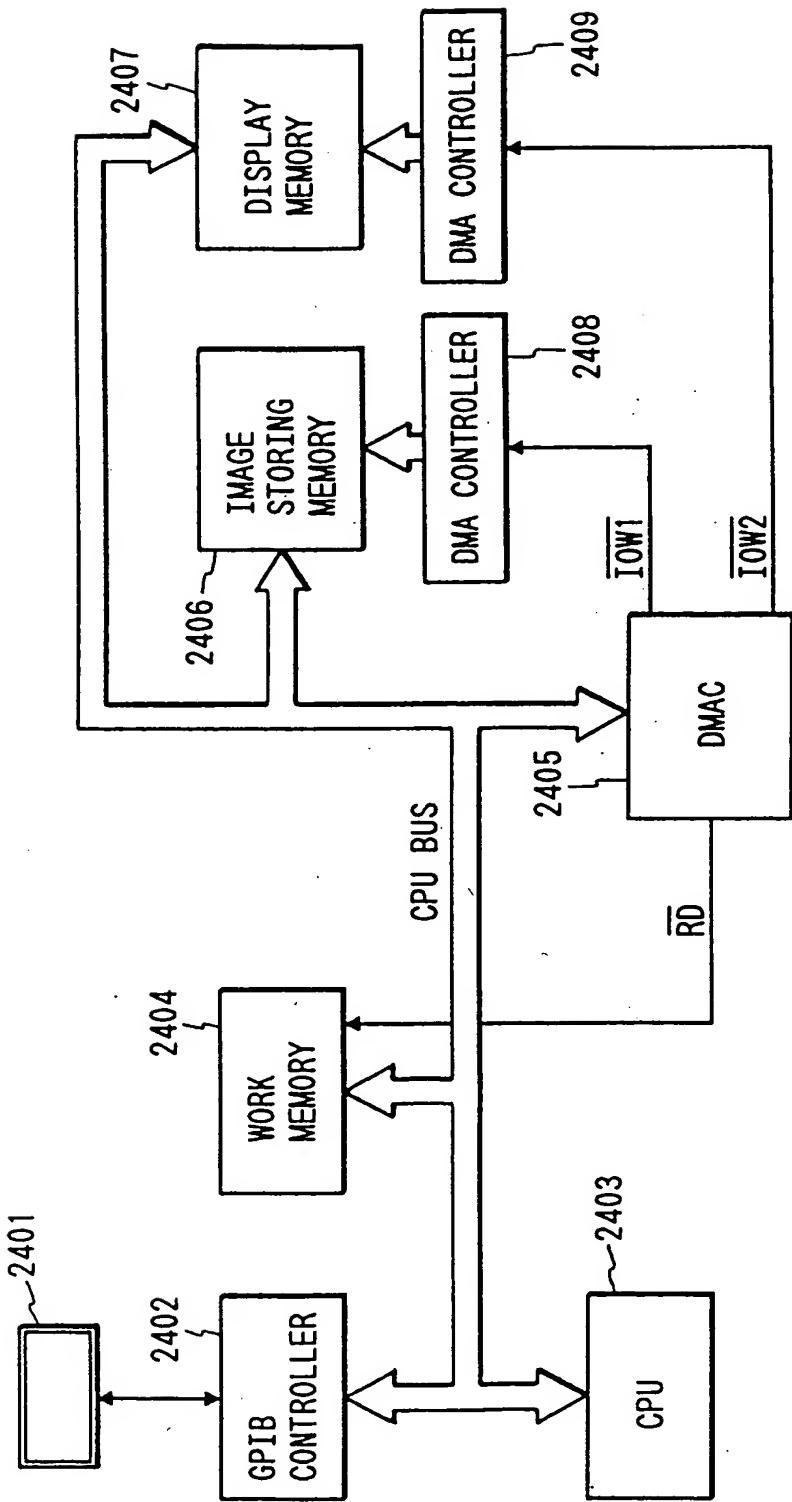


FIG. 43

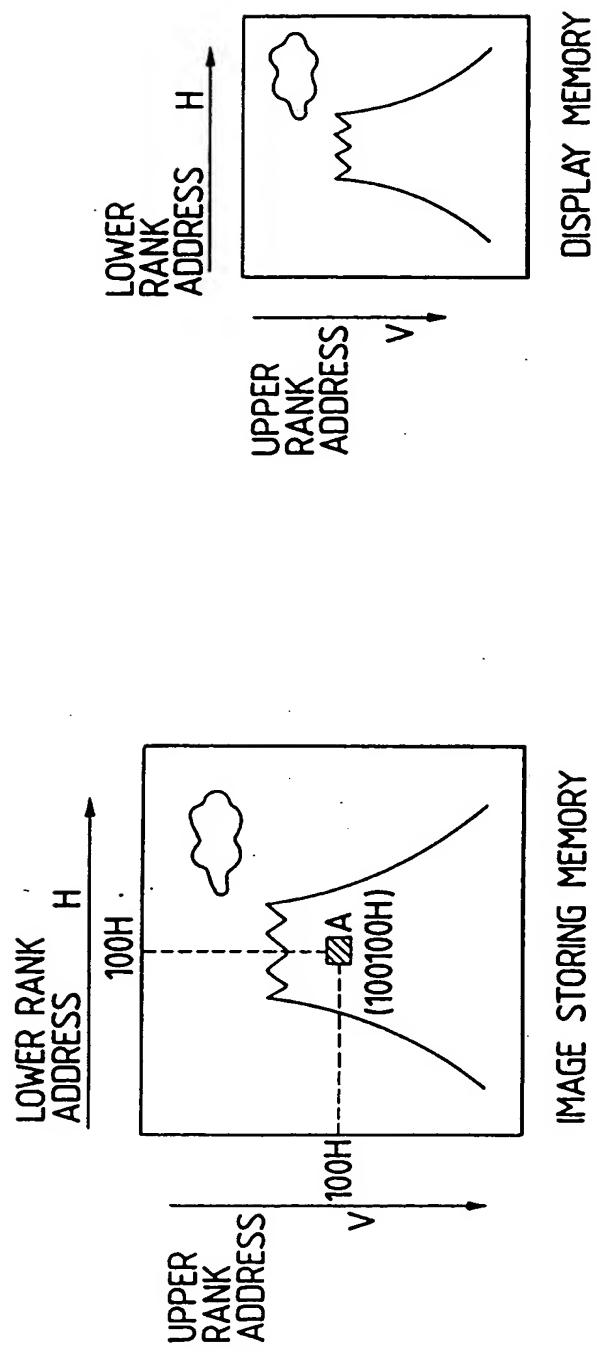


FIG. 44

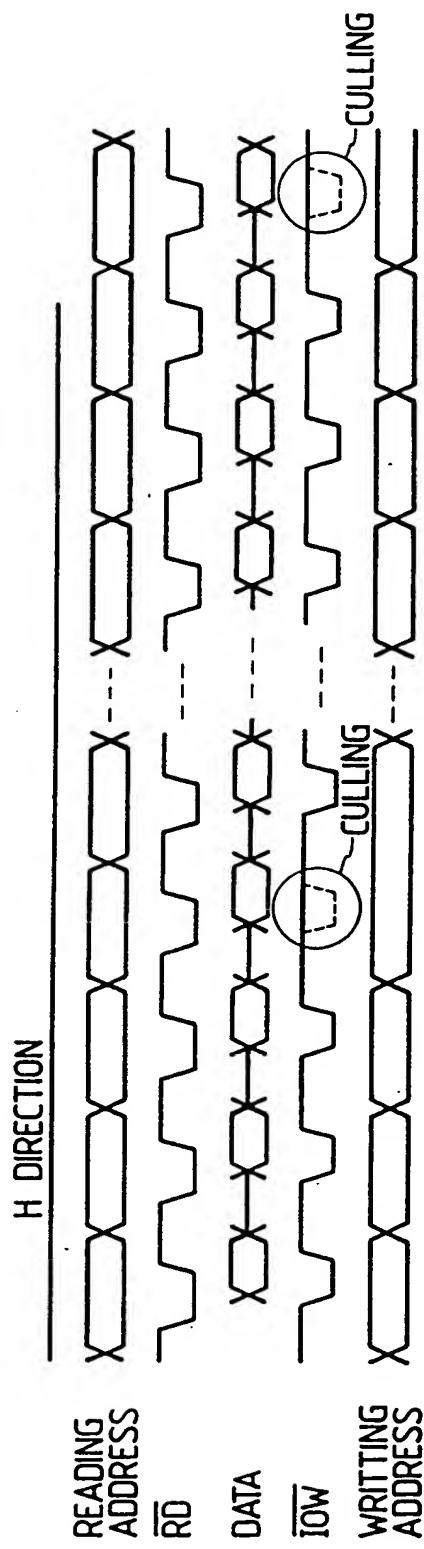


FIG. 45

FIG. 45A

FIG. 45B

FIG. 45A

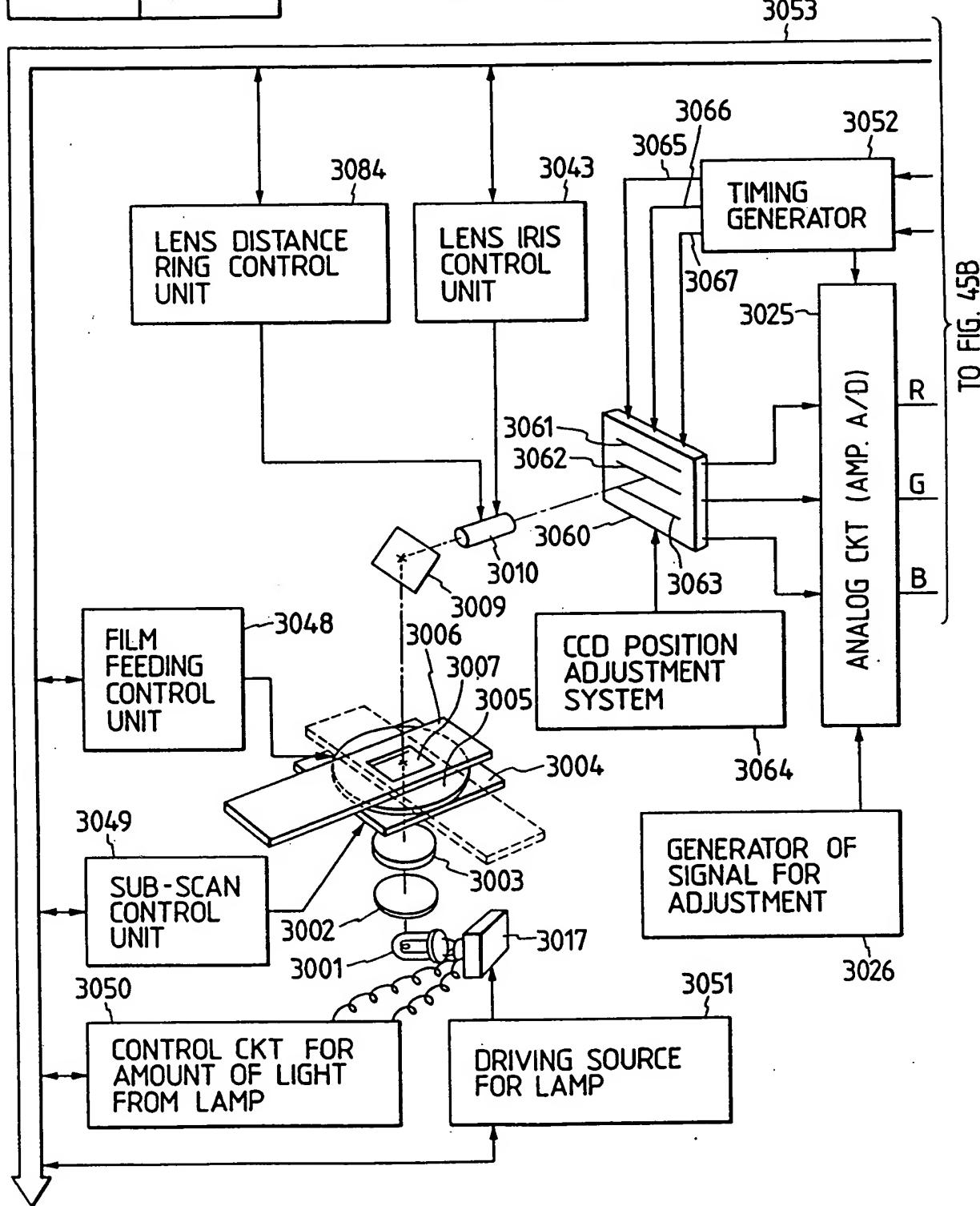


FIG. 45B

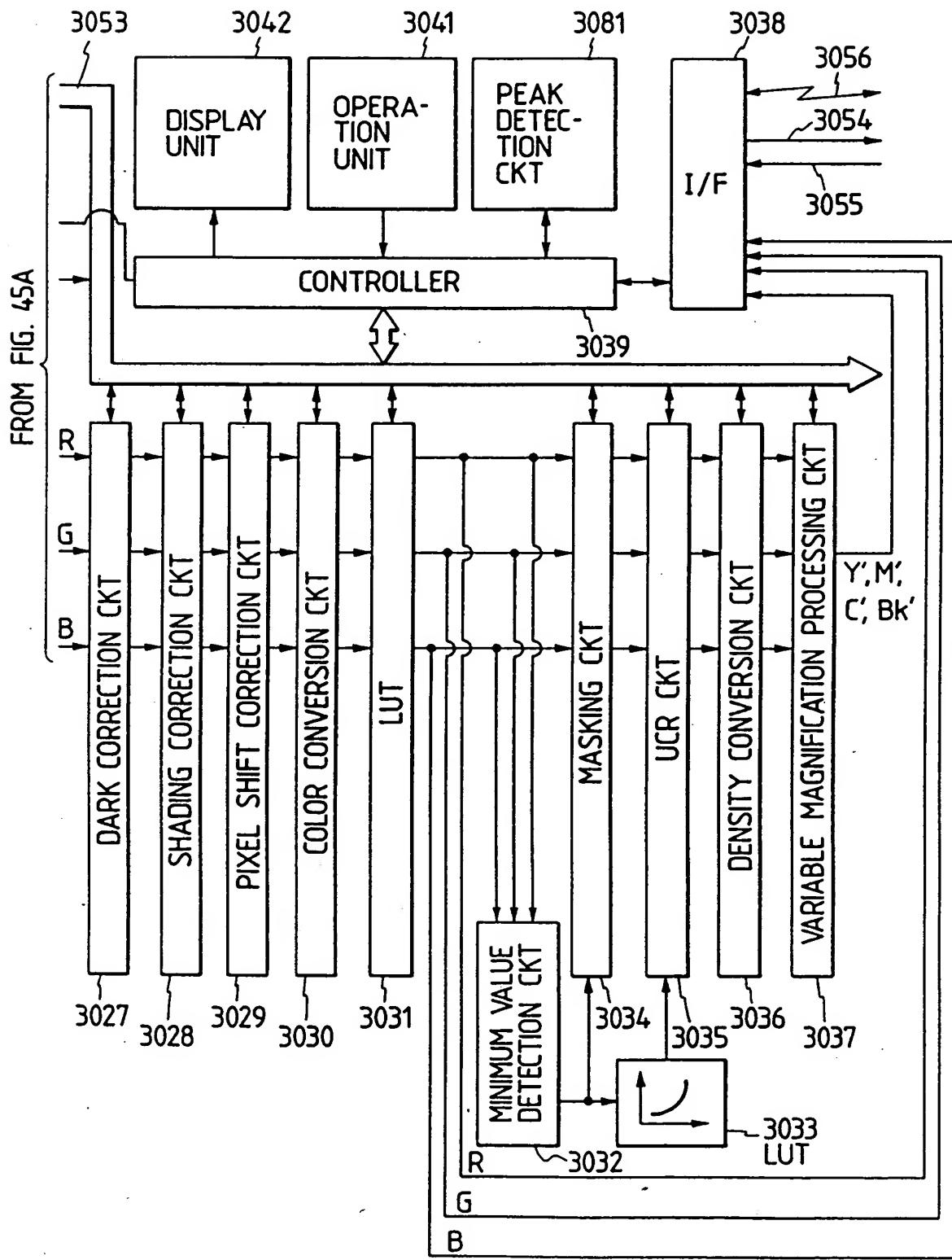


FIG. 46

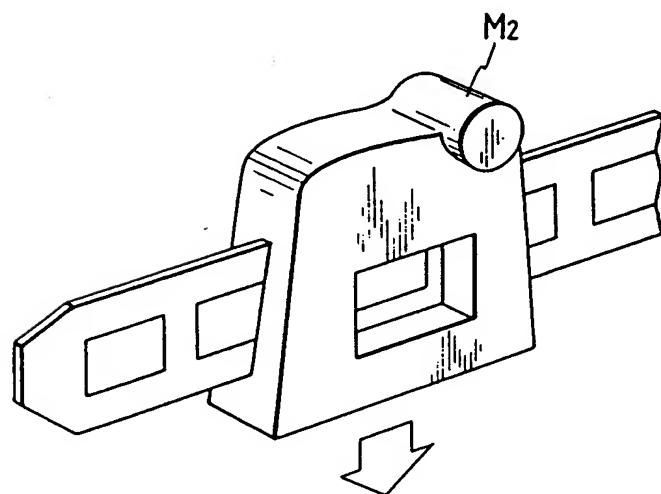
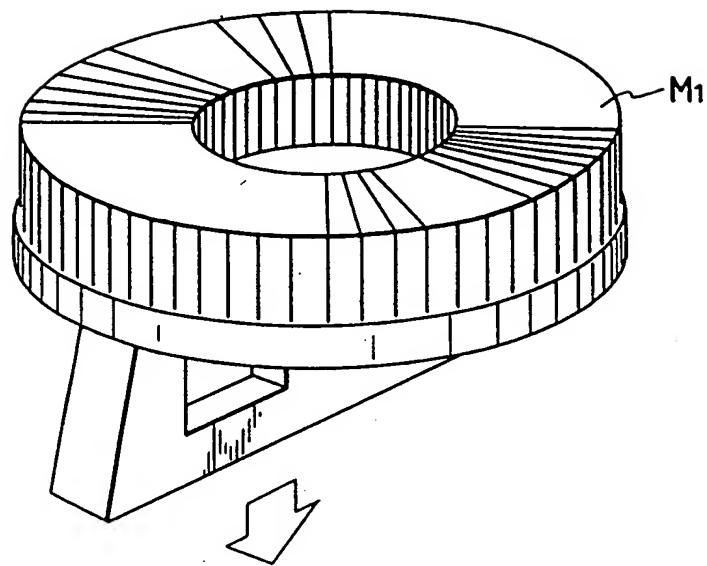


FIG. 47

FIG. 47A | FIG. 47B | FIG. 47C

FIG. 47A

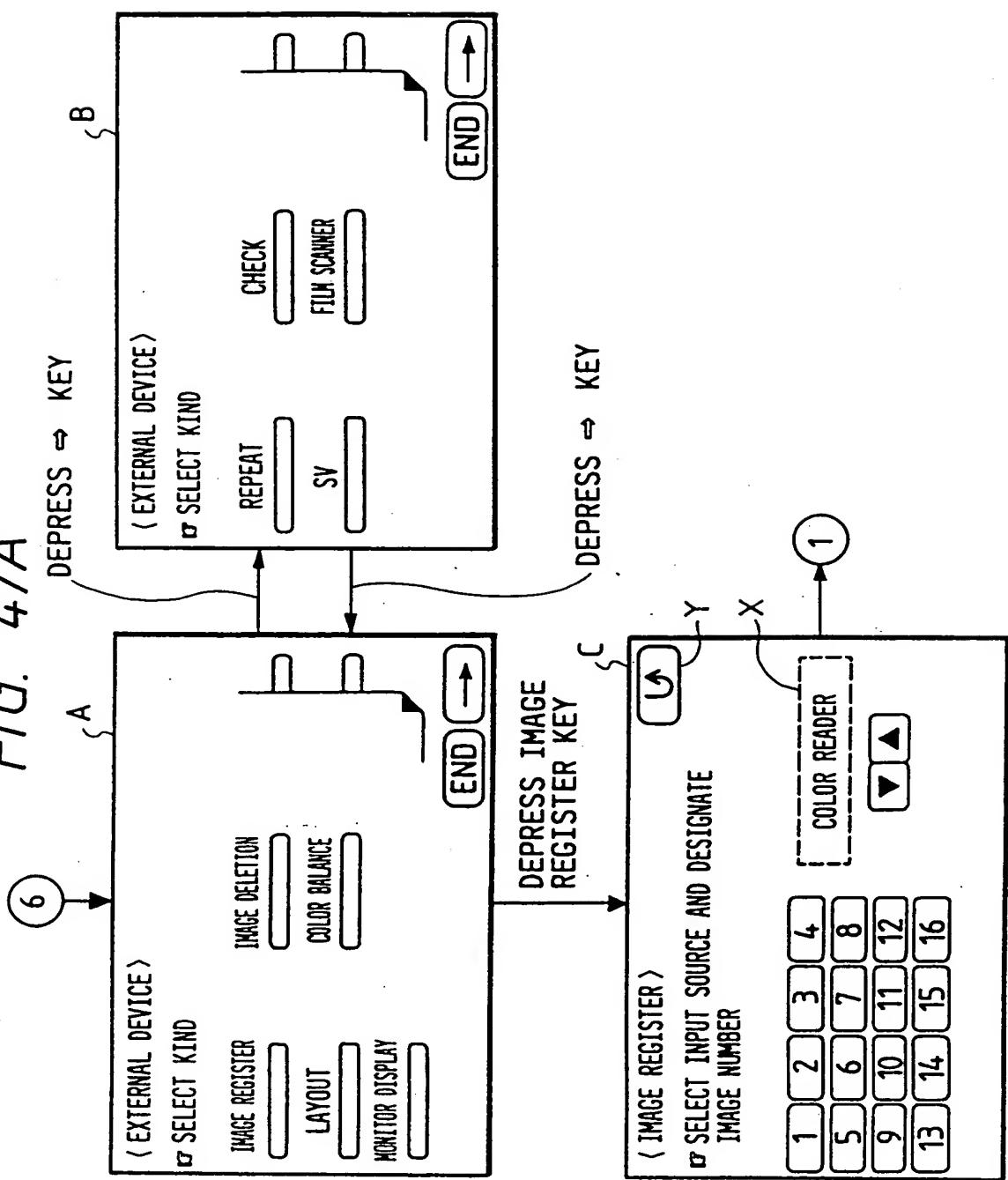
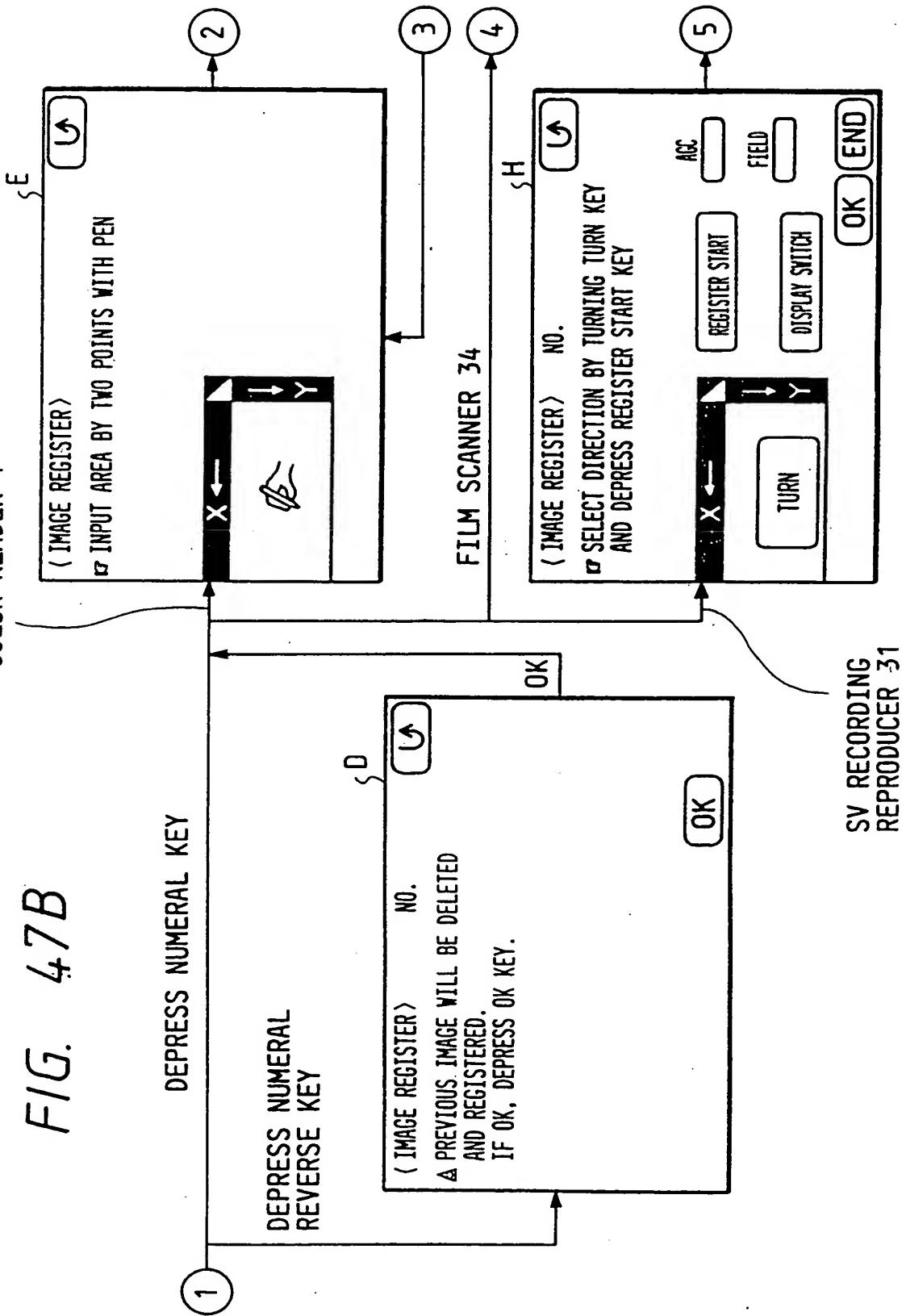


FIG. 47B

COLOR READER 1



SV RECORDING
REPRODUCER 31

FIG. 47C

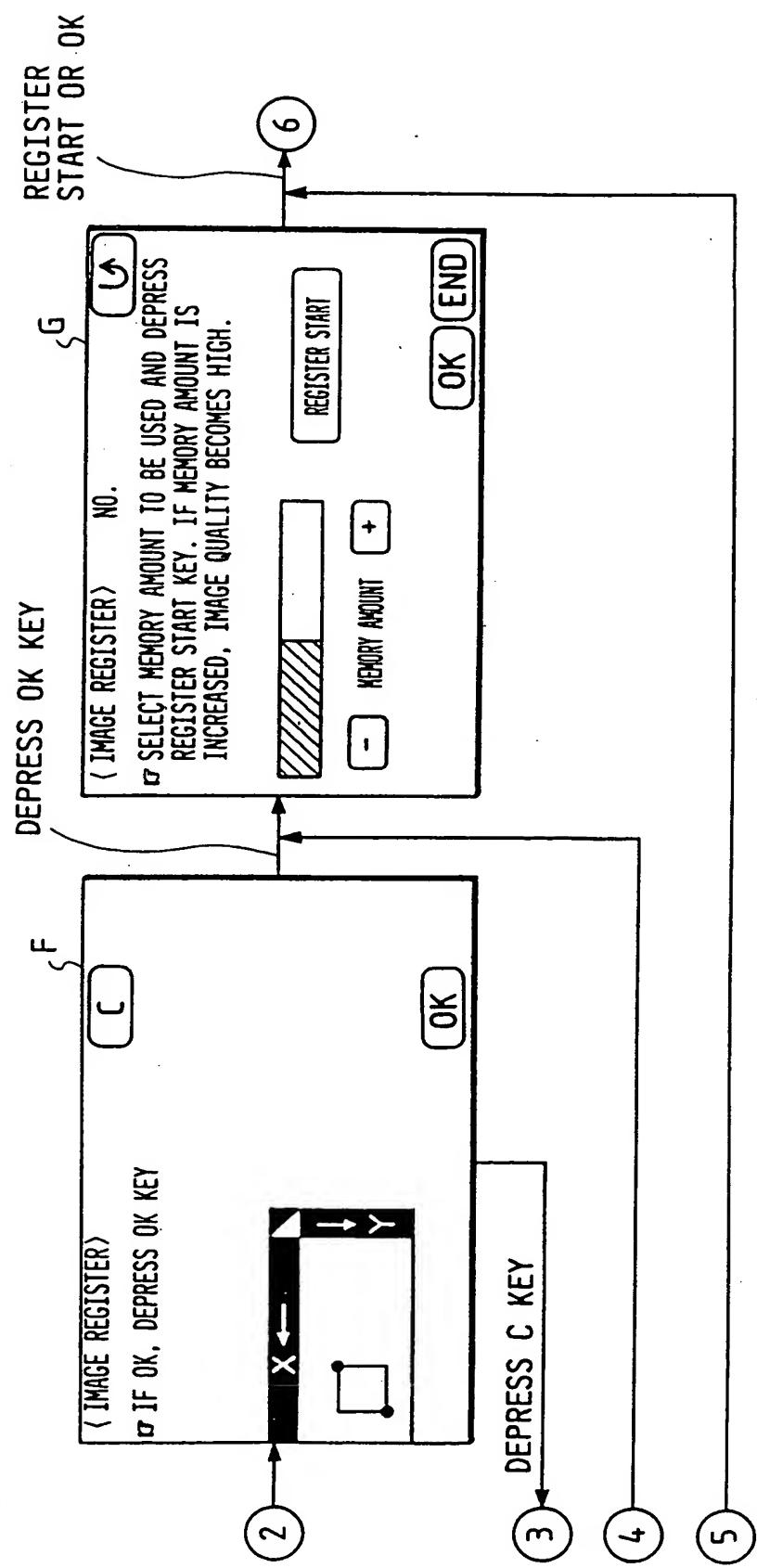


FIG. 48

FIG. 48A FIG. 48B FIG. 48C FIG. 48D

FIG. 48A

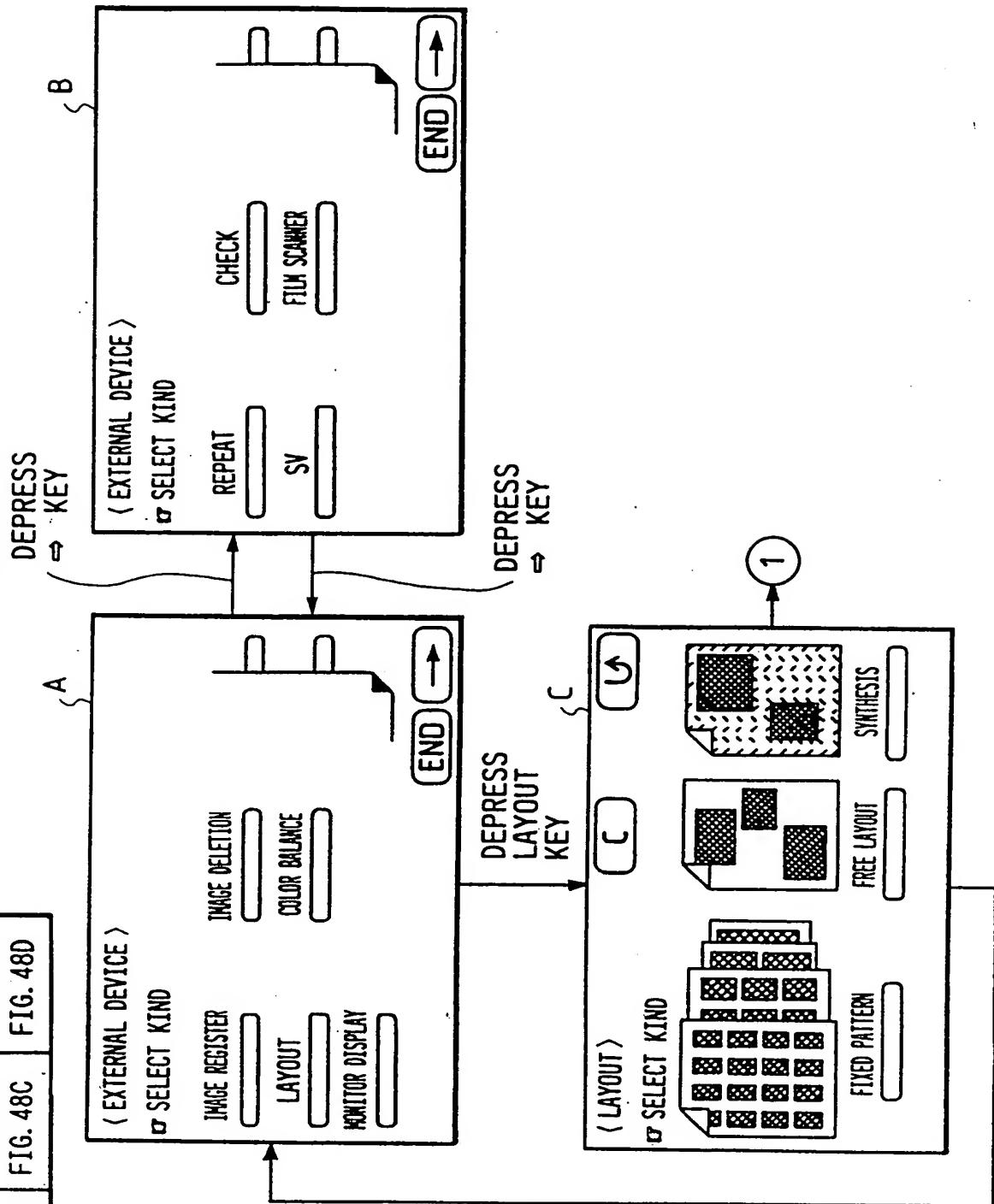


FIG. 48B

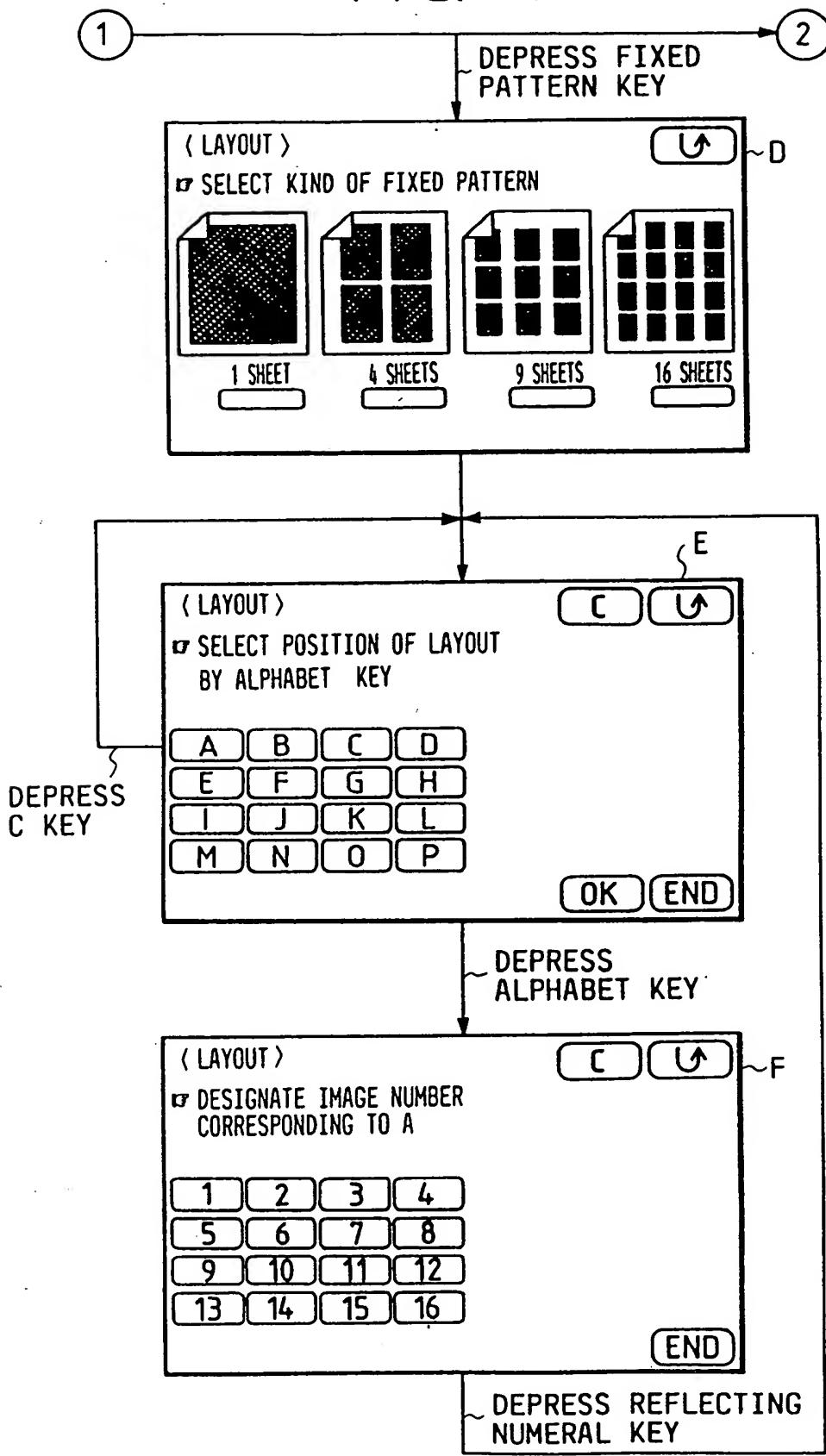


FIG. 48C

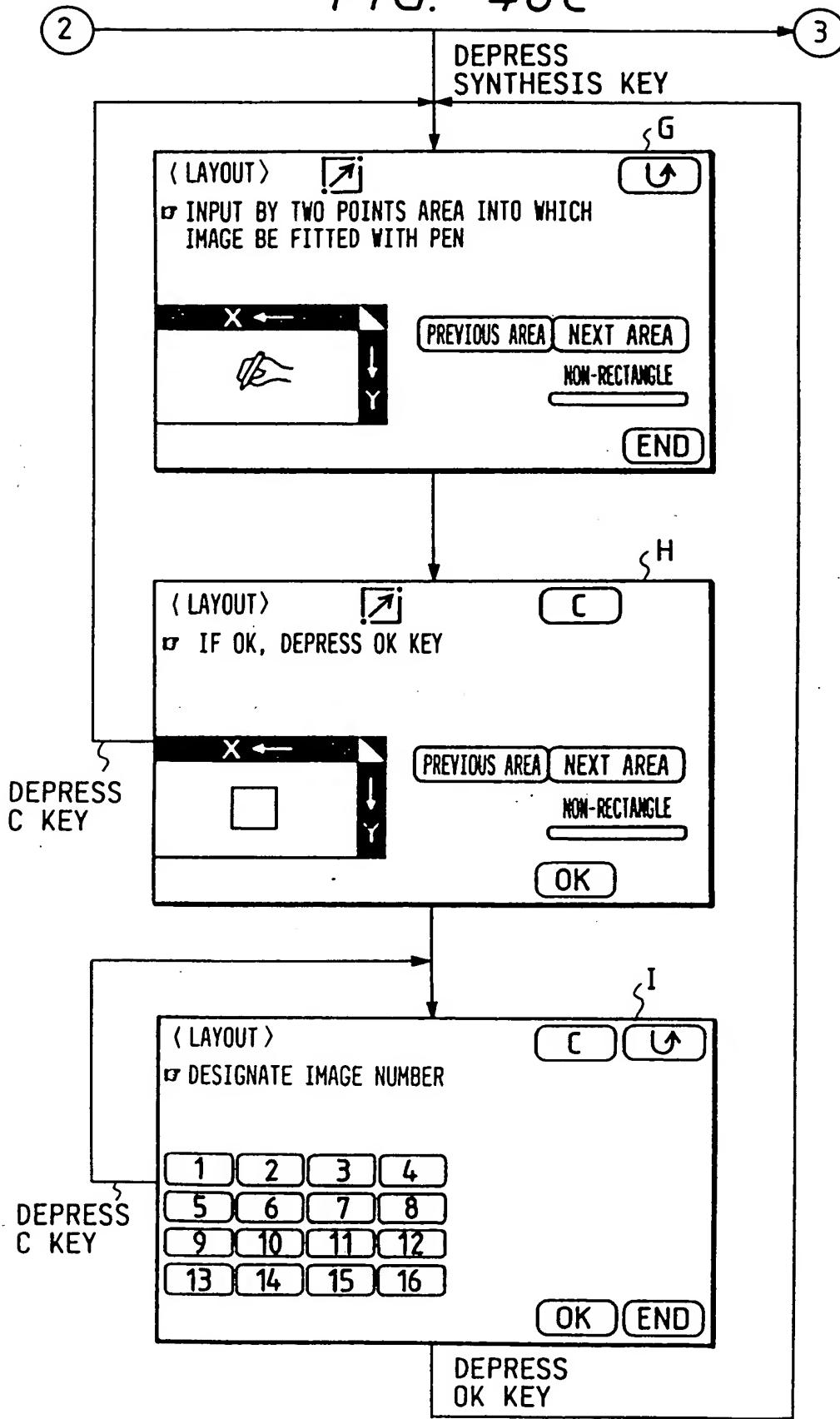


FIG. 48D

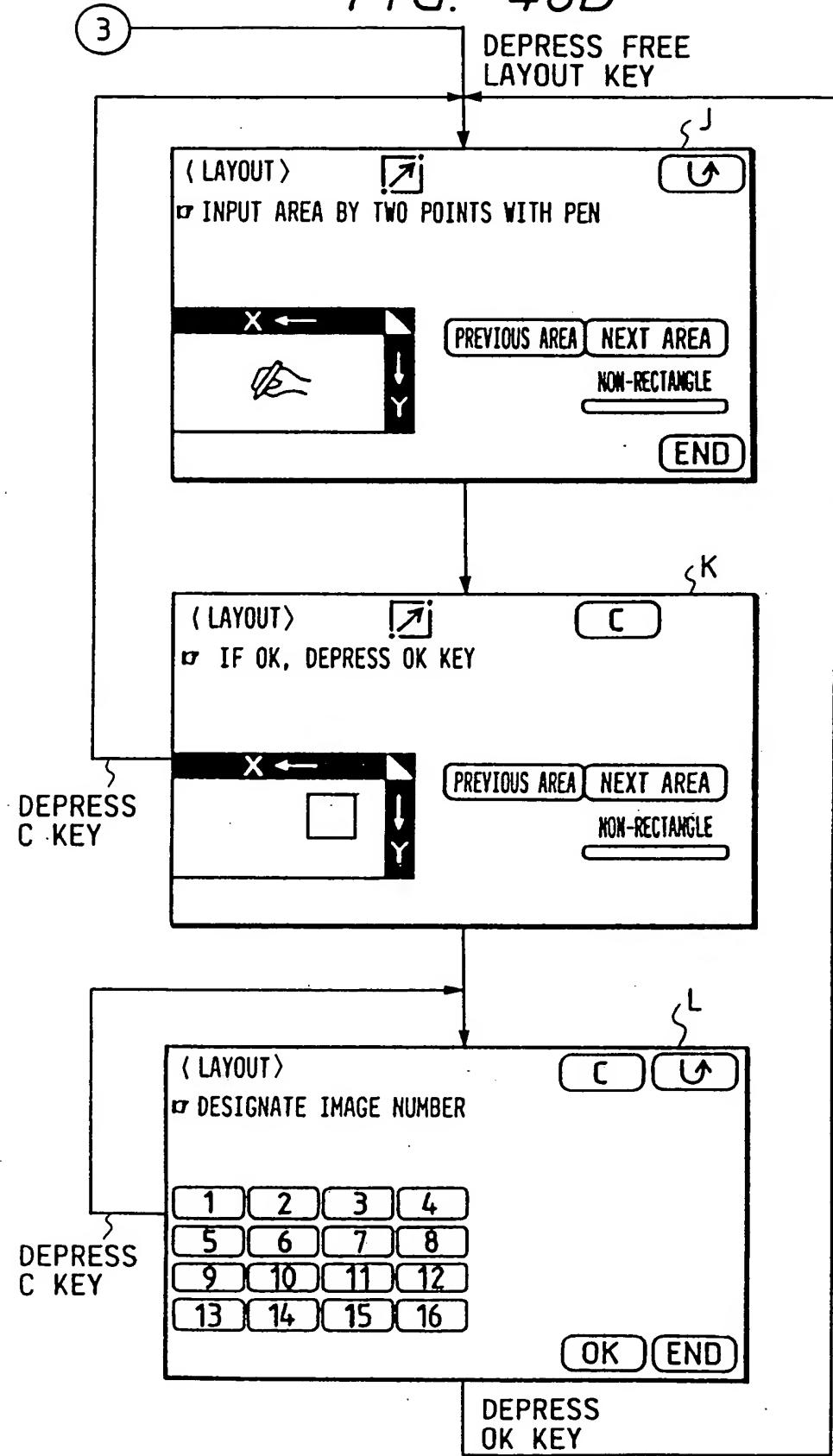


FIG. 49A

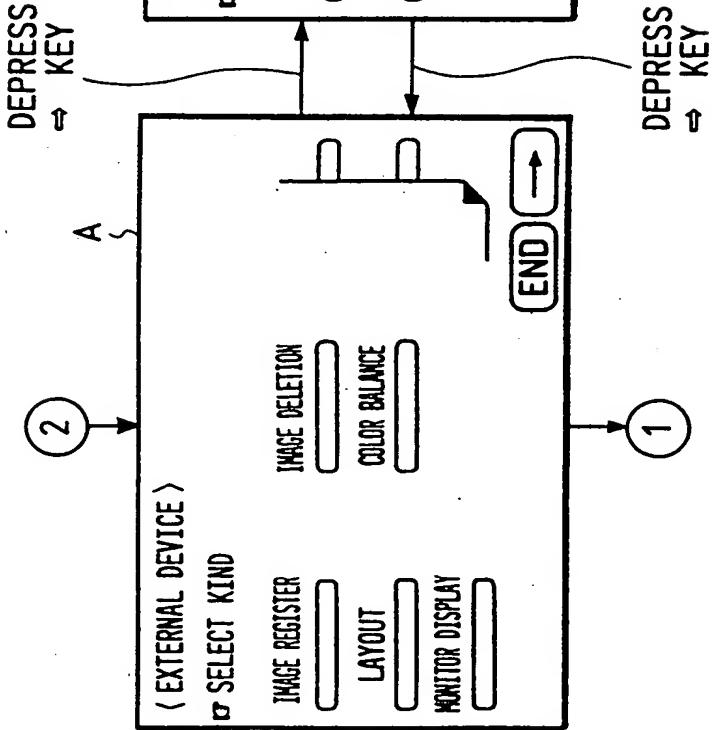


FIG. 49B

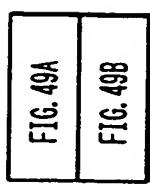


FIG. 49B

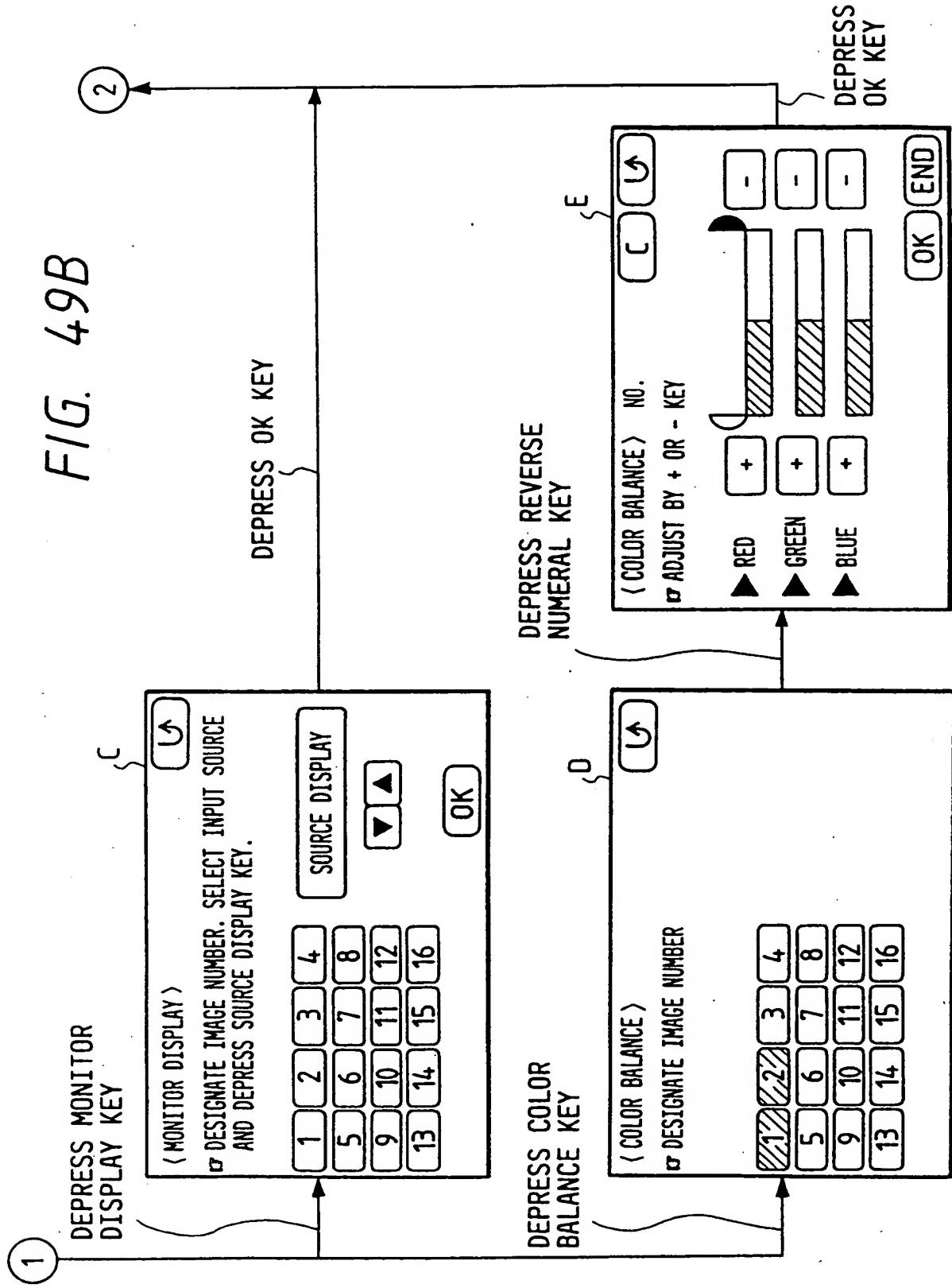


FIG. 50

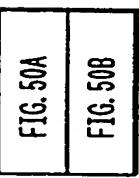


FIG. 50A

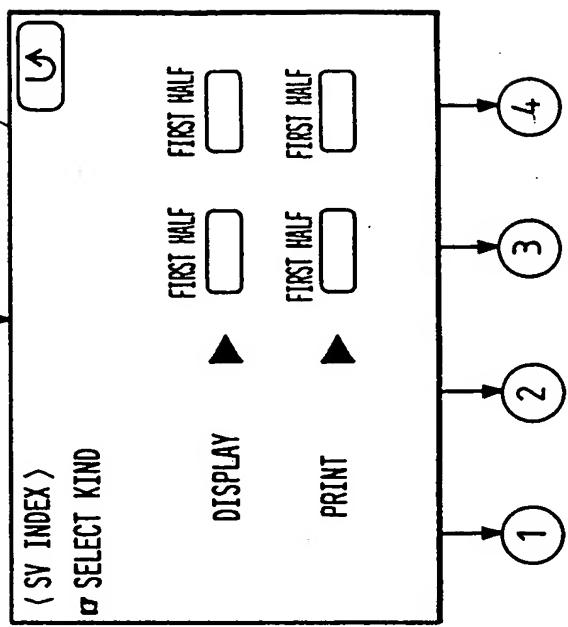
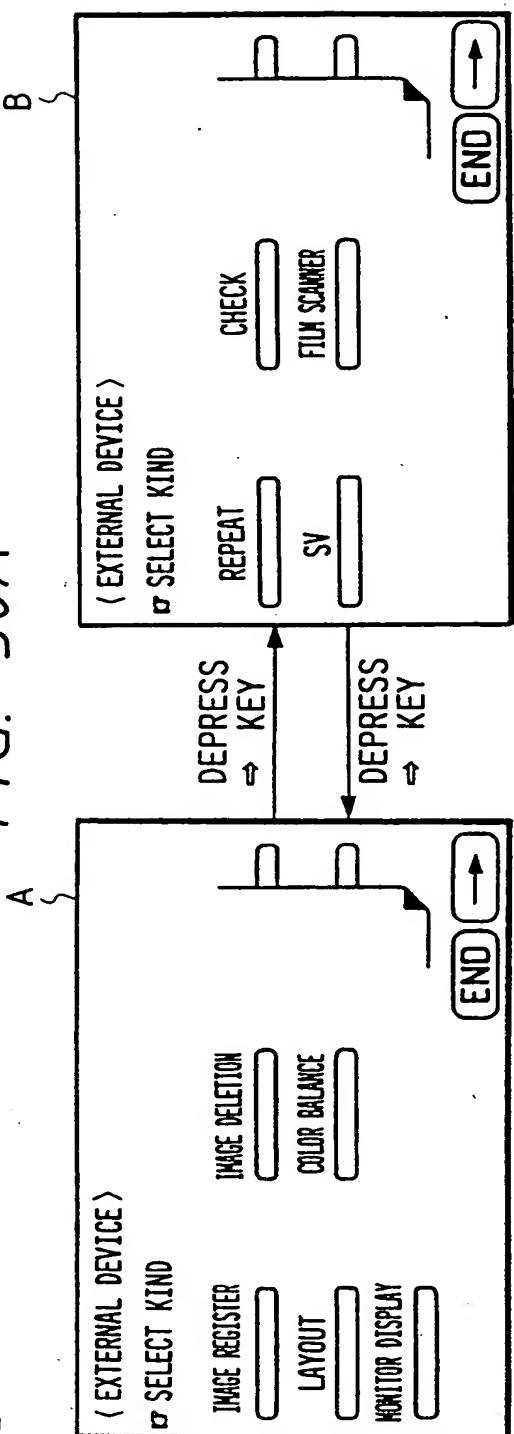


FIG. 50B

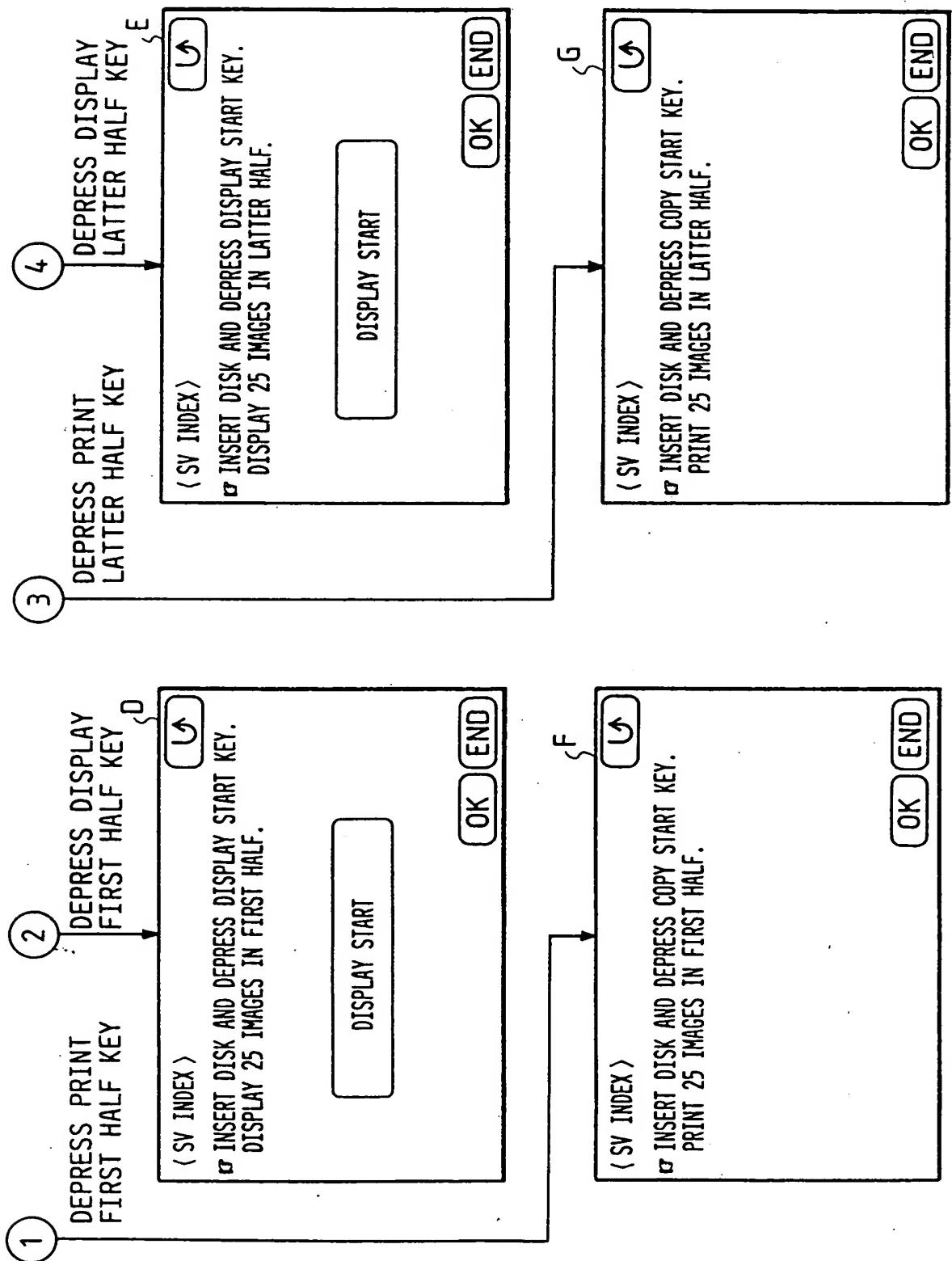


FIG. 51

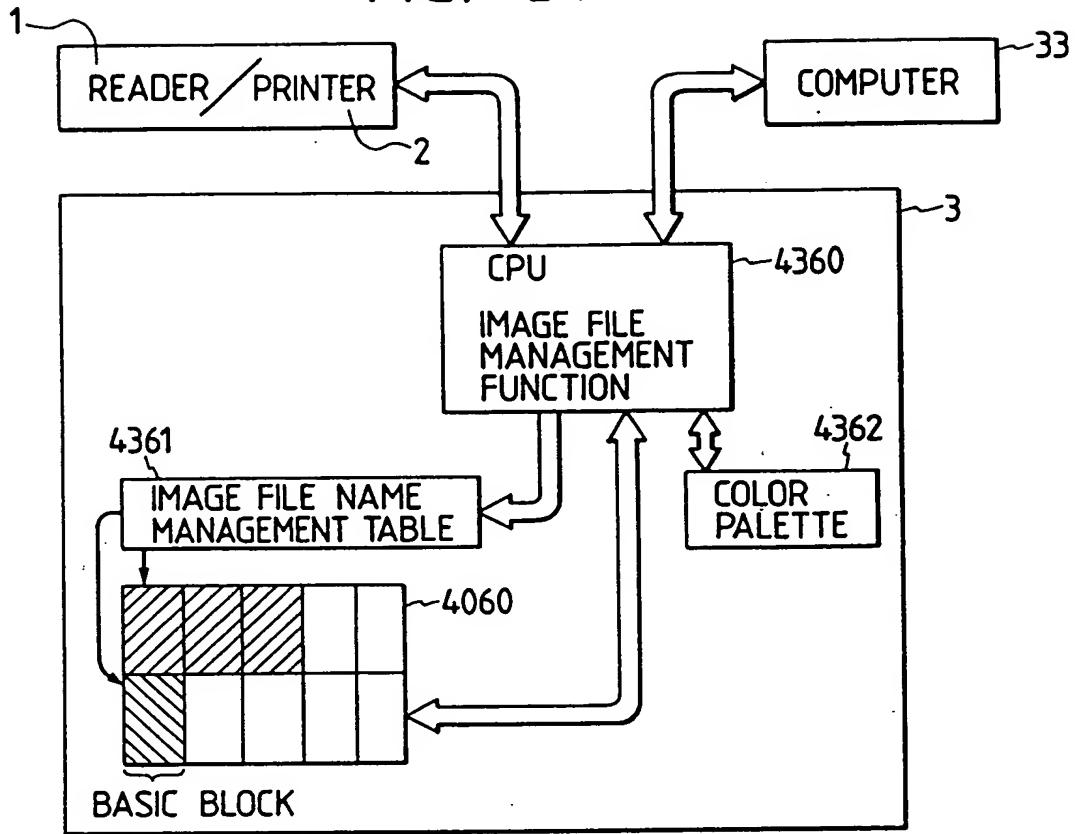


FIG. 52

ORIGIN OF IMAGE STORING APPARATUS

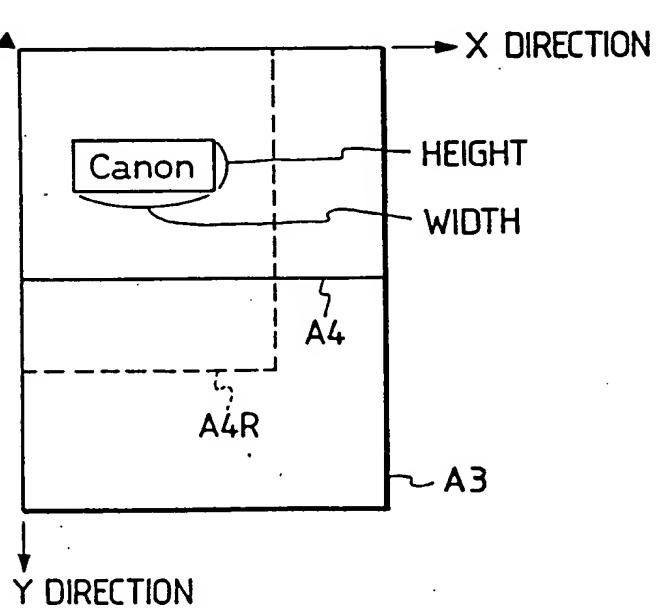


FIG. 53

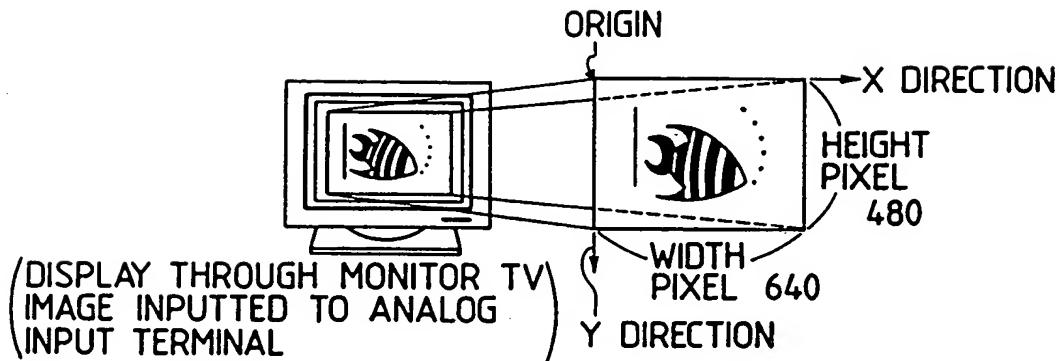


FIG. 54

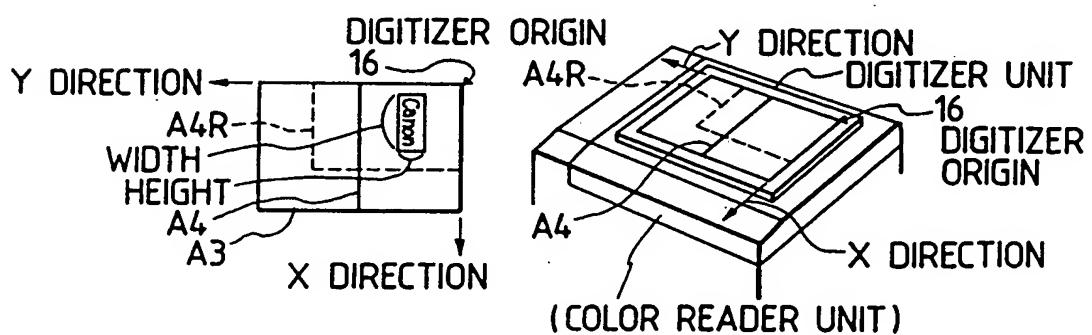


FIG. 55

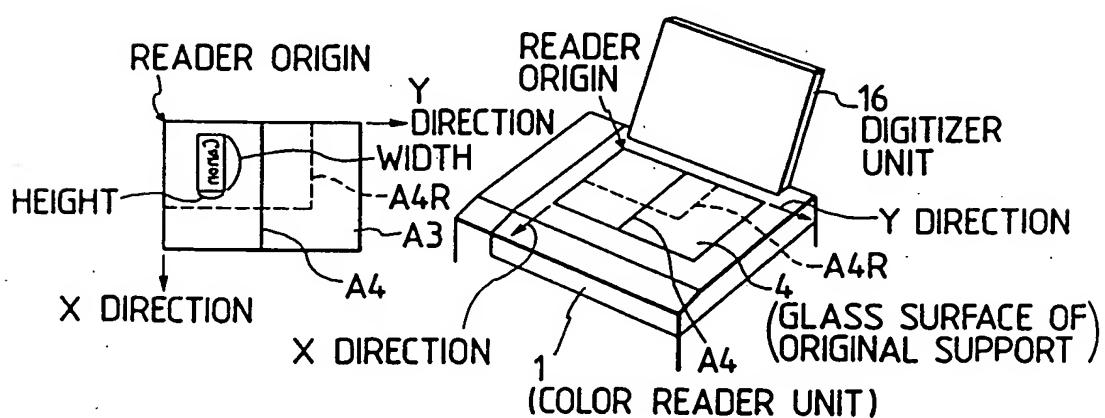


FIG. 56

CONSTRUCT OF IMAGE FILE NAME

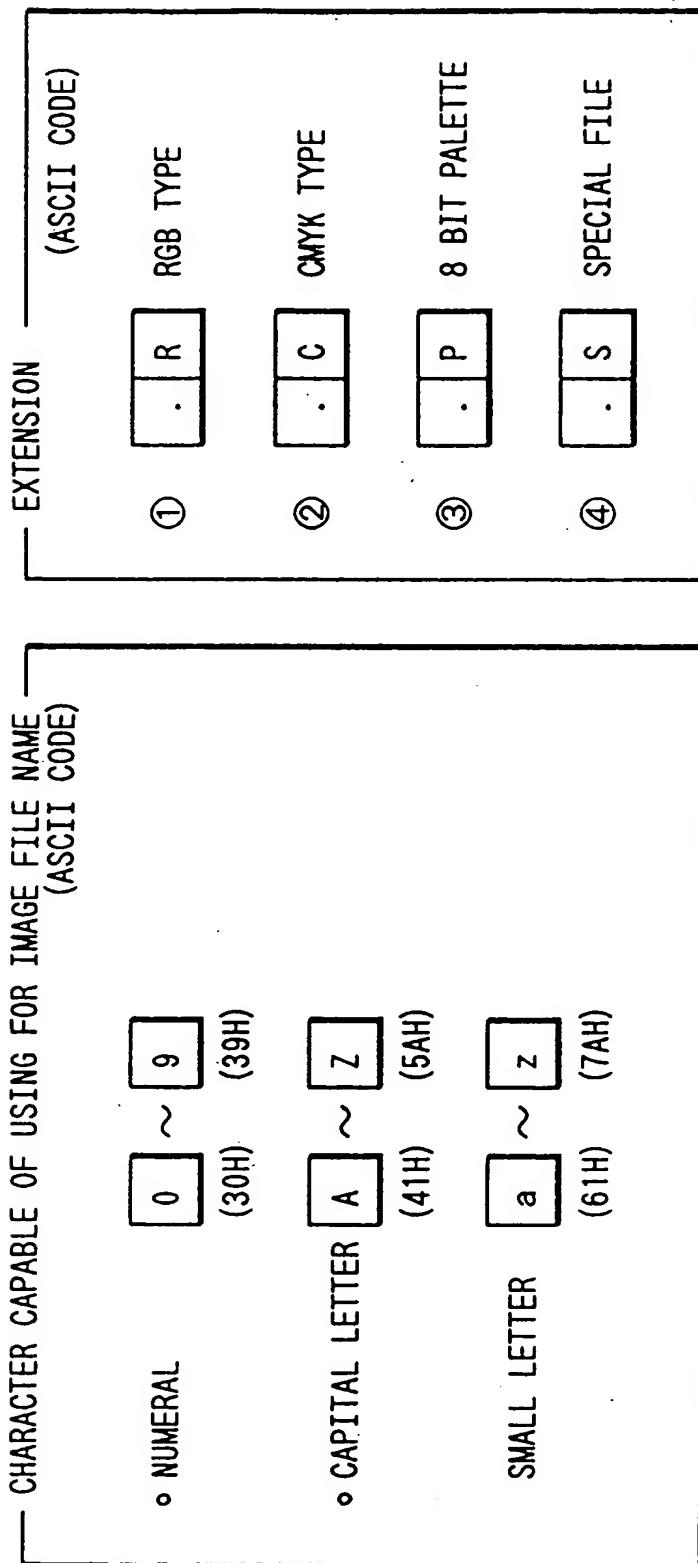
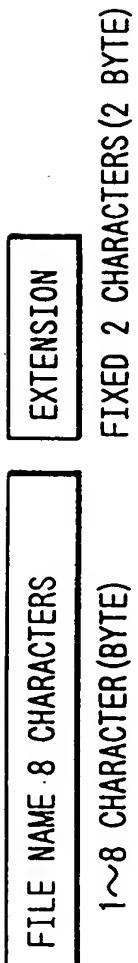


FIG. 57

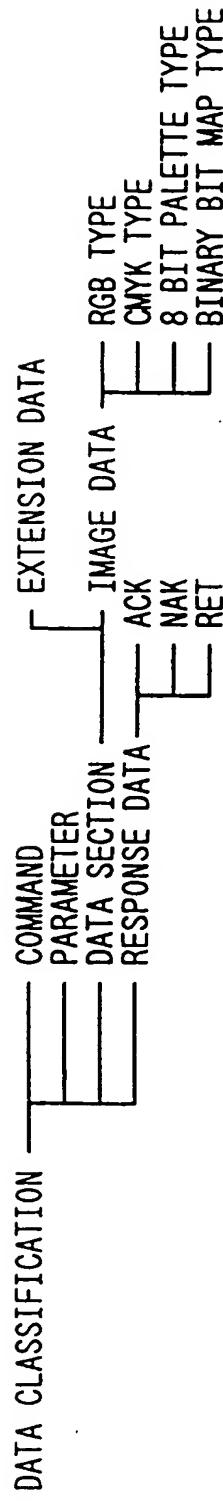
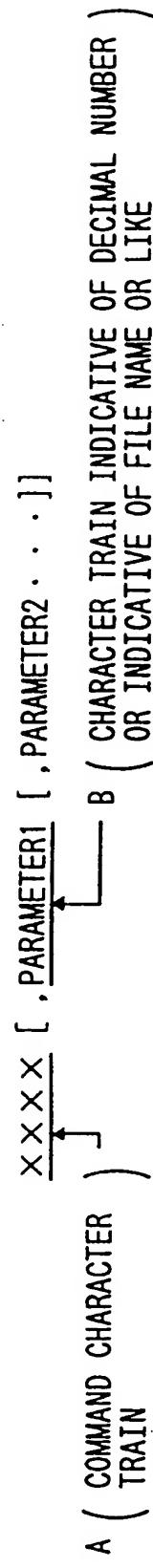


FIG. 58



(EX) SAVE, Image1.R, 640, 480

(REGISTER TO IMAGE MEMORY APPARATUS IMAGE DATA OF
(640×480 SIZE WITH IMAGE FILE NAME "Image1.R")

FIG. 59

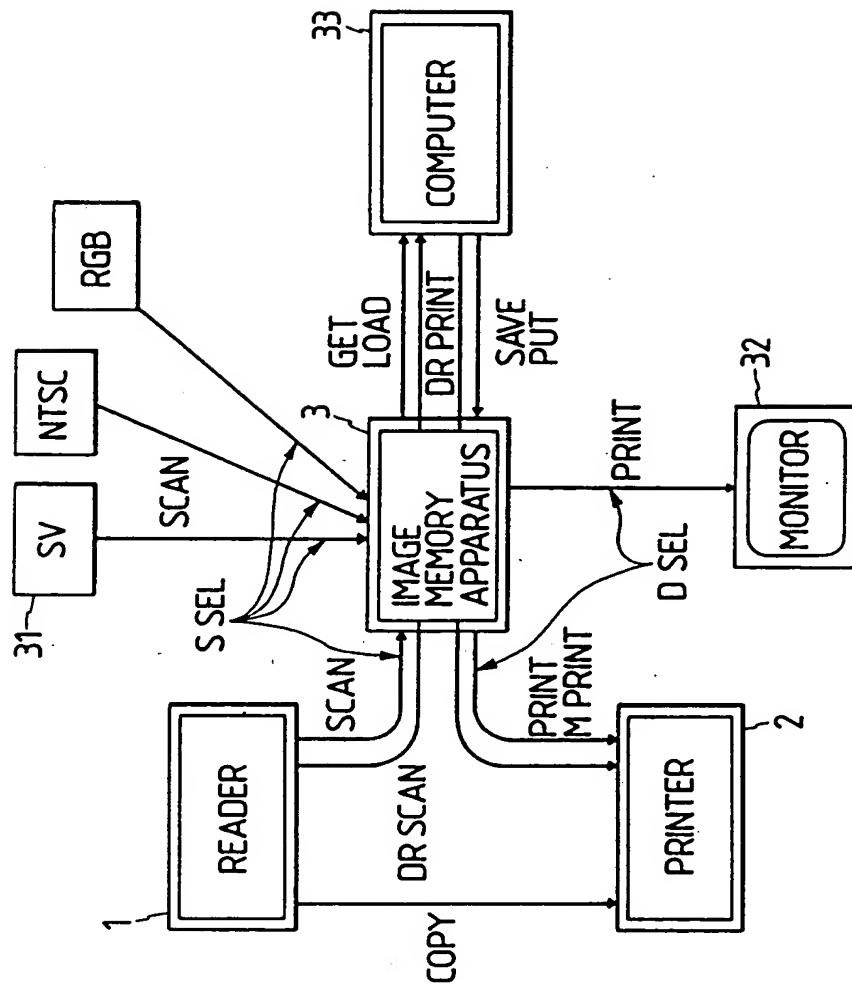


FIG. 60

RGB TYPE

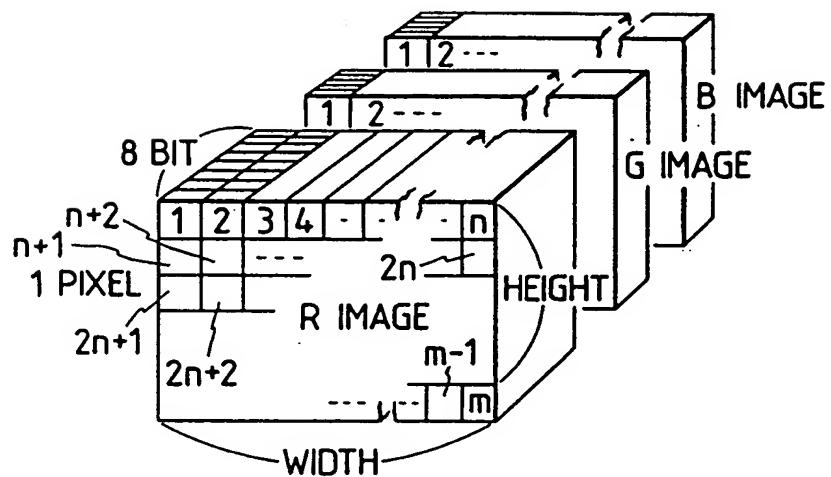


FIG. 61

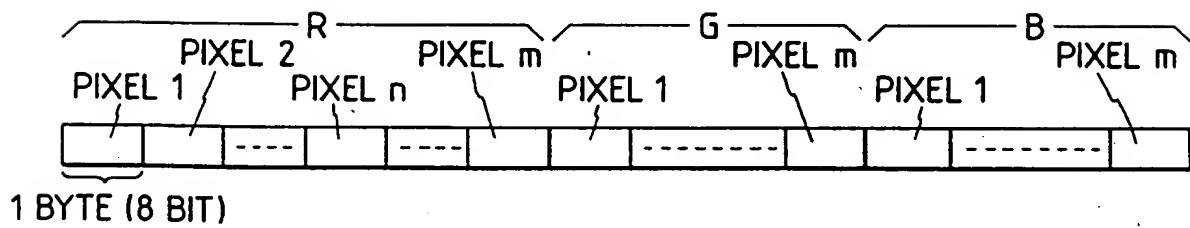


FIG. 62

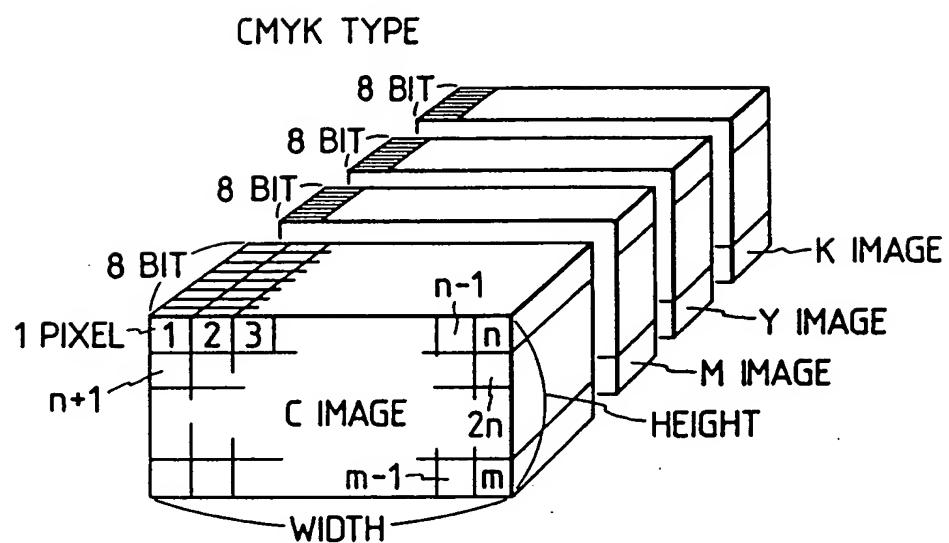


FIG. 63

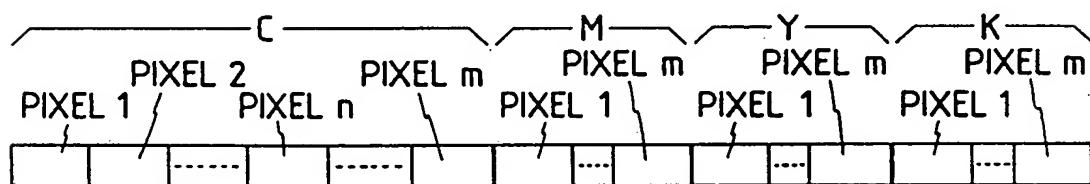


FIG. 64

8 BIT PALETTE TYPE

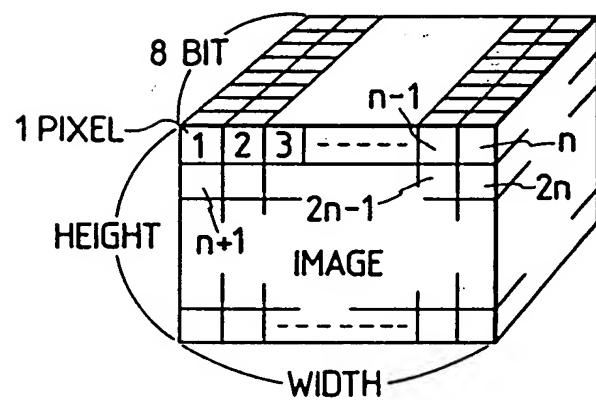


FIG. 65

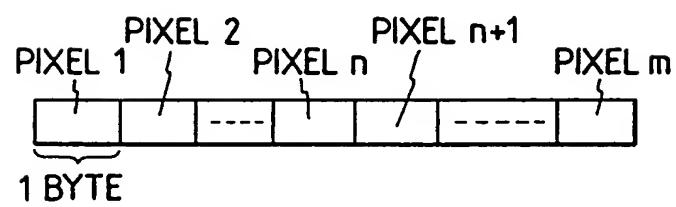


FIG. 66

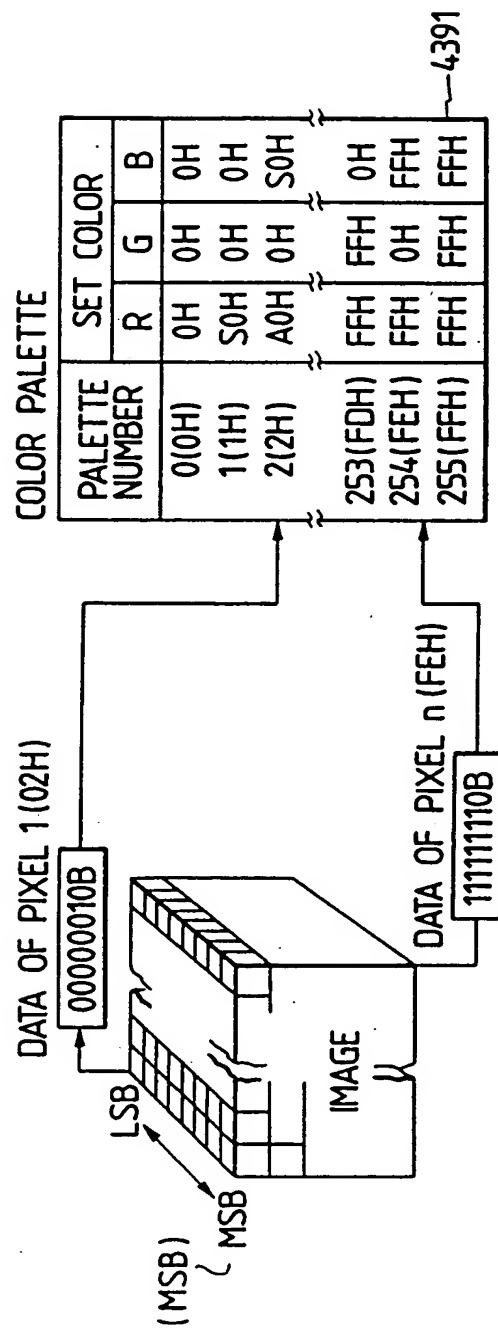


FIG. 67

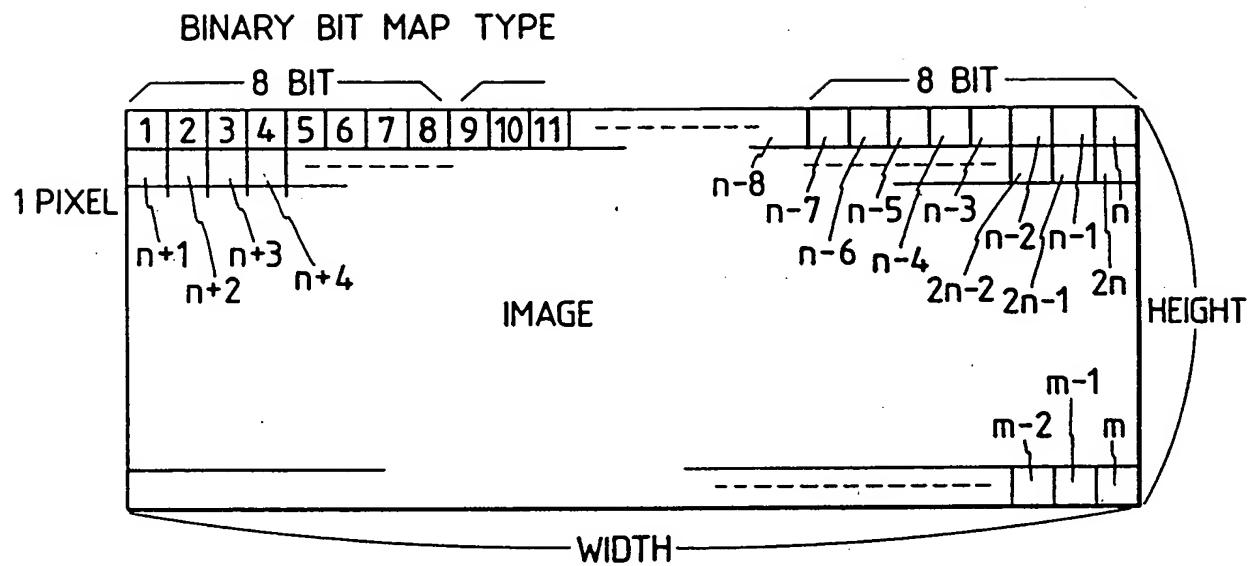


FIG. 68

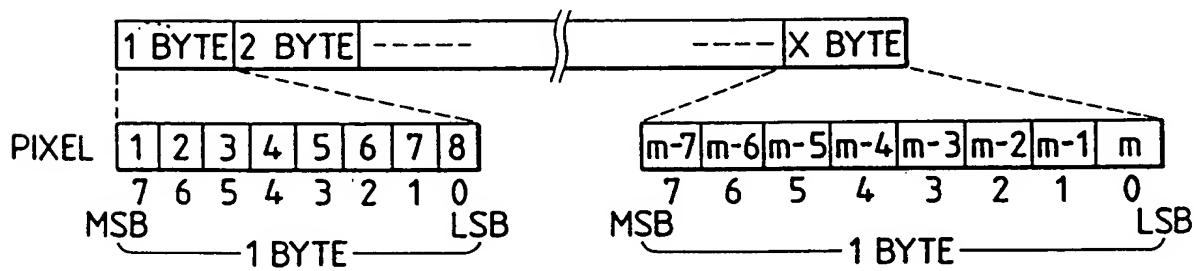


FIG. 69

ACK TYPE (AFFIRMATIVE RESPONSE)

3 BYTE

2E (HEX)	0 0	0 0
----------	-----	-----

NAK TYPE (NEGATIVE RESPONSE)

3 BYTE

3D (HEX)	LOWER RANK BYTE	UPPER RANK BYTE
----------	-----------------	-----------------

$$(\text{ERROR CODE}) = (\text{UPPER RANK BYTE}) \times 100 \text{ (HEX)} + (\text{LOWER RANK BYTE})$$

RET TYPE (RESPONSE WITH ATTACHED INFORMATION)

HEADER

02H	FIRST DATA	SECOND DATA	THIRD DATA	FOURTH DATA	FIFTH DATA	SIXTH DATA	SEVENTH DATA
-----	------------	-------------	------------	-------------	------------	------------	--------------

FIG. 70

COMMAND CLASSIFICATION	COMMAND NAME
INITIALIZING COMMAND	INIT, INITPALET, INITBIT
INPUT OUTPUT EXEC. COMMAND	SCAN, PRINT, MPRINT, COPY, DRSCAN, DRPRINT
INPUT OUTPUT SEL. COMMAND	SSEL, DSEL
INPUT OUTPUT MODE SET COMMAND	SMODE, DMODE, ASMODE, SAREA, DAREA, RPMODE
FILE OPERATION COMMAND	SAVE, LOAD, PUT, GET, DELETE, FNLIST, FNCHECK, DKCHECK
COLOR SET COMMAND	BITCOLOR, PALETTE, BALANCE, GAMMA
OTHER COMMAND	PPRREQ, PPRSEL, SENSE, REMOTE, MONITOR

FIG. 71

NO.	COMMAND	FUNCTION
1	INIT	INITIALIZATION
2	INITPALET	CHANGE OF COLOR PALETTE
3	INITBIT	CLEAR AND INITIALIZATION OF BITMAP OR LIKE
4	SSEL	SWITCH OF INPUT APPARATUS
5	DSEL	SWITCH OF OUTPUT APPARATUS
6	SMODE	SETTING OF INPUT CONDITION UPON INPUTTING IMAGE
7	DMODE	SETTING OF OUTPUT CONDITION UPON OUTPUTTING IMAGE
8	RPMODE	SETTING OF REPEAT OUTPUT UPON PRINTER OUTPUT
9	SAREA	SETTING OF INPUT AREA
10	DAREA	SETTING OF OUTPUT AREA
11	SCAN	INPUT APPARATUS→REGISTER OF IMAGE DATA TO IMAGE MEMORY APPARATUS
12	PRINT	IMAGE MEMORY APPARATUS→OUTPUT OF IMAGE DATA TO OUTPUT APPARATUS
13	MPRINT	IMAGE MEMORY APPARATUS→VIRTUAL OUTPUT OF IMAGE DATA TO OUTPUT APPARATUS
14	COPY	INPUT APPARATUS→OUTPUT OF IMAGE DATA TO OUTPUT APPARATUS
15	DRSCAN	INPUT APPARATUS→TRANSFER OF IMAGE DATA TO COMPUTER
16	DRPRINT	COMPUTER→OUTPUT OF IMAGE DATA TO OUTPUT APPARATUS
17	SAVE	COMPUTER→REGISTER OF IMAGE FILE TO IMAGE MEMORY APPARATUS
18	LOAD	IMAGE MEMORY APPARATUS→TRANSFER OF EXISTING IMAGE FILE TO COMPUTER
19	PUT	FITTING PORTION OF DATA INTO IMAGE FILE

FIG. 72

NO.	COMMAND	FUNCTION
20	GET	CUTTING OUT PORTION OF DATA IN IMAGE FILE
21	DELETE	DELETION OF IMAGE FILE
22		
23	REN	CHANGE OF IMAGE FILE
24	FNLIST	OBTAINING OF LIST OF ALL REGISTERED IMAGE FILE IN IMAGE MEMORY APPARATUS
25	FNCHECK	CHECK OF ATTRIBUTE INFORMATION OF IMAGE FILE OF IMAGE MEMORY APPARATUS
26	DKCHECK	CHECK OF MEMORY CAPACITY OF IMAGE MEMORY APPARATUS
27	BITCOLOR	SETTING OF COLOR FOR BINARY BIT MAP
28	PALETTE	SETTING OF COLOR PALETTE
29	BALANCE	SETTING OF COLOR BALANCE
30	GAMMA	SETTING OF GAMMA CORRECTION
31	PPRREQ	SHEET SIZE
32	PPRSEL	SETTING OF SHEET SELECTION
33	SENSE	STATUS INFORMATION OF EACH CONNECTING APPARATUS
34	REMOTE	REMOTE/LOCAL SETTING
35	ASMODE	SETTING OF INPUT CONDITION UPON INPUT OF ANALOG IMAGE
36		
37		
38	MONITOR	THROUGH DISPLAY OF ANALOG INPUT

FIG. 73

COMMAND NAME	CONTENTS	RESPONSE
INIT	INITIALIZATION OF IMAGE MEMORY APPARATUS	ACK NAK
FUNCTION	EXECUTE INITIALIZATION FOR EACH MEMORY APPARATUS	
FORM	INIT, <no>	
COMMAND NAME	CONTENTS	RESPONSE
INITBIT	INITIALIZATION OF SPECIAL FILE	ACK NAK
FUNCTION	EXECUTE INITIALIZATION OF SPECIAL FILE "BITMAP.S"	
FORM	INITBIT, <type>	
COMMAND NAME	CONTENTS	RESPONSE
INITPALET	INITIALIZATION OF COLOR PALETTE	ACK NAK
FUNCTION	EXECUTE INITIALIZATION OF COLOR PALETTE	
FORM	INITPALET	

FIG. 74

COMMAND NAME	FUNCTION	FORM	CONTENTS	RESPONSE
SSEL	SWITCHING OF IMAGE INPUT APPARATUS			ACK NAK
DSEL	SELECTION OF OUTPUT APPARATUS			ACK NAK
COMMAND NAME	FUNCTION	FORM	CONTENTS	RESPONSE
	SELECT IMAGE OUTPUT APPARATUS	DSEL, <no>		

FIG. 75

FIG. 75A

FIG. 75B

FIG. 75A

COMMAND NAME	CONTENTS	RESPONSE
DAREA	SETTING OF OUTPUT AREA	ACK NAK
FUNCTION	SET AREA TO BE OUTPUT TO OUTPUT APPARATUS	
FORM	DAREA, <type>, <sx>, <sy>, <width>, <height>	
COMMAND NAME	CONTENTS	RESPONSE
SAREA	SETTING OF INPUT AREA	ACK NAK
FUNCTION	SET AREA TO BE INPUTTED FROM INPUT APPARATUS	
FORM	DAREA, <type>, <sx>, <sy>, <width>, <height>	
COMMAND NAME	CONTENTS	RESPONSE
DMODE	SETTING OF OUTPUT CONDITION UPON OUTPUTTING IMAGE	ACK NAK
FUNCTION	SET SIZE CHANGE CONDITION UPON OUTPUTTING IMAGE	
FORM	DMODE, <type>, <mx>, <my>	

TO FIG. 75B

FIG. 75B

FROM FIG. 75A

COMMAND NAME	CONTENTS	RESPONSE
SMODE	SETTING OF INPUT CONDITION UPON INPUTTING IMAGE	ACK NAK
FUNCTION	SET SIZE CHANGE CONDITION UPON INPUTTING IMAGE	
FORM	SMODE, <type>, <mx>, <my>	
COMMAND NAME	CONTENTS	RESPONSE
ASMODE	SETTING OF INPUT MODE FOR ANALOG MODE	ACK NAK
FUNCTION	SET INPUT MODE OF ANALOG IMAGE	
FORM	ASMODE, p1, p2	
COMMAND NAME	CONTENTS	RESPONSE
RPMODE	SETTING OF REPEAT OUTPUT UPON PRINTER OUTPUT	ACK NAK
FUNCTION	OUTPUT IMAGE FROM PRINTER REPEATEDLY	
FORM	RPMODE, <flag>	

FIG. 76

FIG. 76A
FIG. 76B

FIG. 76A

COMMAND NAME	CONTENTS	RESPONSE
COPY	OUTPUT IMAGE DATA FROM INPUT APPARATUS TO OUTPUT APPARATUS	ACK NAK
FUNCTION	OUTPUT FROM SCANNER TO PRINTER DIRECTLY	
FORM	COPY, <count>	

COMMAND NAME	CONTENTS	RESPONSE
SCAN	REGISTER OF IMAGE DATA FROM INPUT APPARATUS TO IMAGE MEMORY APPARATUS	ACK NAK
FUNCTION	EXECUTE IMAGE REGISTER FROM DESIGNATED INPUT APPARATUS	
FORM	SCAN, <filename>, <width>, <height>	

COMMAND NAME	CONTENTS	RESPONSE
PRINT	OUTPUT IMAGE DATA FROM IMAGE MEMORY APPARATUS TO OUTPUT APPARATUS	ACK NAK
FUNCTION	OUTPUT TO DESIGNATED OUTPUT APPARATUS REGISTERED IMAGE IN IMAGE MEMORY APPARATUS	
FORM	PRINT, <filename>, <count>	

TO FIG. 76B

FIG. 76B

FROM FIG. 76A

COMMAND NAME	CONTENTS	RESPONSE
MPRINT	VIRTUAL OUTPUT OF IMAGE DATA FROM IMAGE MEMORY APPARATUS TO OUTPUT APPARATUS	ACK NAK
FUNCTION	EXECUTE VIRTUAL OUTPUT OF IMAGE DATA FROM IMAGE MEMORY APPARATUS TO OUTPUT APPARATUS	
FORM	MPRINT, <filename>	

COMMAND NAME	CONTENTS	RESPONSE
DRSCAN	INPUT OF IMAGE DATA FROM INPUT APPARATUS TO COMPUTER	ACK NAK
FUNCTION	INPUT IMAGE DATA FROM INPUT APPARATUS TO COMPUTER	
FORM	DRSCAN, <filename>, <width>, <height>	

COMMAND NAME	CONTENTS	RESPONSE
DRPRINT	OUTPUT OF IMAGE DATA FROM COMPUTER TO OUTPUT APPARATUS	ACK NAK
FUNCTION	OUTPUT IMAGE DATA FROM COMPUTER TO OUTPUT APPARATUS	
FORM	DRPRINT, <filename>, <width>, <height>, <count>	

FIG. 77

FIG. 77A
FIG. 77B

FIG. 77A

COMMAND NAME	CONTENTS	RESPONSE
DELETE	DELETION OF IMAGE FILE	RET
FUNCTION	DELETE REGISTERED IMAGE FILE IN IMAGE MEMORY APPARATUS	
FORM	DELE, <filename>	
COMMAND NAME	CONTENTS	RESPONSE
DKCHECK	CHECK OF REGISTERED CAPACITY IN IMAGE MEMORY APPARATUS	RET
FUNCTION	CHECK REGISTERED CAPACITY IN IMAGE MEMORY APPARATUS	
FORM	DKCHECK, <type>, <width>, <height>	
COMMAND NAME	CONTENTS	RESPONSE
FNCHECK	CHECK OF ATTRIBUTE INFORMATION OF IMAGE FILE OF IMAGE MEMORY APPARATUS	RET
FUNCTION	CHECK ATTRIBUTE INFORMATION OF IMAGE FILE OF IMAGE MEMORY APPARATUS	
FORM	FNCHECK, <filename>	

TO FIG. 77B

FIG. 77B

FROM FIG. 77A

COMMAND NAME	FUNCTION	CONTENTS	RESPONSE
FNLIST	TRANSFER OF LIST OF ALL REGISTERED IMAGE FILE IN IMAGE MEMORY APPARATUS	RET	
FORM	TRANSFER TO HOST COMPUTER INFORMATION REGARDING ALL REGISTERED IMAGE FILE IN IMAGE MEMORY APPARATUS		
FNLIST			
COMMAND NAME	FUNCTION	CONTENTS	RESPONSE
REN	CHANGE OF IMAGE FILE NAME		ACK NAK
FORM	CHANGE IMAGE FILE NAME		
REN	REN, <Sfilename>, <Dfilename>		
FORM			

FIG. 78

FIG. 78A

FIG. 78B

FIG. 78A

COMMAND NAME	CONTENTS	RESPONSE
LOAD	TRANSFER OF REGISTERED IMAGE FILE FROM IMAGE MEMORY APPARATUS TO COMPUTER	ACK NAK
FUNCTION FORM	TRANSFER IMAGE FILE REGISTERED IN IMAGE MEMORY APPARATUS TO COMPUTER LOAD, <filename>	

COMMAND NAME	CONTENTS	RESPONSE
SAVE	REGISTER OF IMAGE FILE FROM COMPUTER TO IMAGE MEMORY APPARATUS	ACK NAK
FUNCTION FORM	REGISTER IMAGE FILE FROM COMPUTER TO IMAGE MEMORY APPARATUS SAVE, <filename>, <width>, <height>	

TO FIG. 78B

FIG. 78B

FROM FIG. 78A

COMMAND NAME	CONTENTS	RESPONSE
PUT	FITTING OF PARTIAL IMAGE INTO REGISTERED IMAGE FILE	ACK NAK
FUNCTION	FIT PARTIAL IMAGE INTO REGISTERED IMAGE FILE	
FORM	PUT, <filename>, <sx>, <sy>, <width>, <height>	

COMMAND NAME	CONTENTS	RESPONSE
GET	CUTTING OFF OF PORTION IN IMAGE FILE	ACK NAK
FUNCTION	CUT OFF PORTION IN IMAGE REGISTERED TO IMAGE MEMORY APPARATUS AND TRANSFER IT TO HOST COMPUTER	
FORM	GET, <filename>, <sx>, <sy>, <width>, <height>	

FIG. 79

COMMAND NAME	CONTENTS	RESPONSE
BALANCE	SETTING OF COLOR BALANCE	ACK NAK
FUNCTION	SET EACH COLOR BALANCE FOR RGB AND CMYBK	
FORM	BALANCE, <type>, <c1>, <c2>, <c3>, <c4>	
COMMAND NAME	CONTENTS	RESPONSE
BITCOLOR	SETTING OF COLOR FOR BINARY BIT MAP IMAGE DATA	ACK NAK
FUNCTION	DESIGNATE COLOR FOR IMAGE DATA OF BINARY BIT MAP MEMORY	
FORM	BITCOLOR, <sx>, <sy>, <width>, <height>, <index>	
COMMAND NAME	CONTENTS	RESPONSE
GAMMA	SETTING OF GAMMA CORRECTION TABLE UPON PRINTING OUT	ACK NAK
FUNCTION	SET GAMMA CORRECTION TABLE UPON PRINTING OUT	
FORM	GAMMA, <type>	
COMMAND NAME	CONTENTS	RESPONSE
PALETTE	SETTING OF COLOR PALETTE TABLE	ACK NAK
FUNCTION	SET COLOR PALETTE TABLE	
FORM	PALETTE	

FIG. 80

FIG. 80A

FIG. 80B

FIG. 80A

COMMAND NAME	CONTENTS	RESPONSE
MONITOR	SETTING OF MONITOR DISPLAY	ACK NAK
FUNCTION	THROUGH-DISPLAY ANALOG IMAGE TO MONITOR TV CONNECTED TO IMAGE MEMORY APPARATUS	
FORM	MONITOR, <type>	
COMMAND NAME	CONTENTS	RESPONSE
PPRREQ	TRANSFER OF INFORMATION REGARDING SHEET SIZE	RET
FUNCTION	TRANSFER DETERMINATION DATA FOR SHEET CASSETTE OF PRINTER TO HOST COMPUTER	
FORM	PPRREQ	
COMMAND NAME	CONTENTS	RESPONSE
PPRSEL	SETTING OF SHEET SELECTION	ACK NAK
FUNCTION	SELECT SHEET	
FORM	PPRSEL, <no>	

TO FIG. 80B

FIG. 80B

FROM FIG. 80A

COMMAND NAME	CONTENTS	RESPONSE
REMOTE	SETTING OF REMOTE STATUS OF IMAGE MEMORY APPARATUS	ACK NAK
FUNCTION	SET REMOTE/LOCAL STATUS OF IMAGE MEMORY APPARATUS BY COMPUTER	
FORM	RPMOTE, <type>	

COMMAND NAME	CONTENTS	RESPONSE
SENSE	TRANSFER OF INFORMATION FOR EACH PERIPHERAL APPARATUS	RET
FUNCTION	CHECK STATUS OF EACH CONNECTING APPARATUS	
FORM	SENSE, <dev>, <type>	

FIG. 81

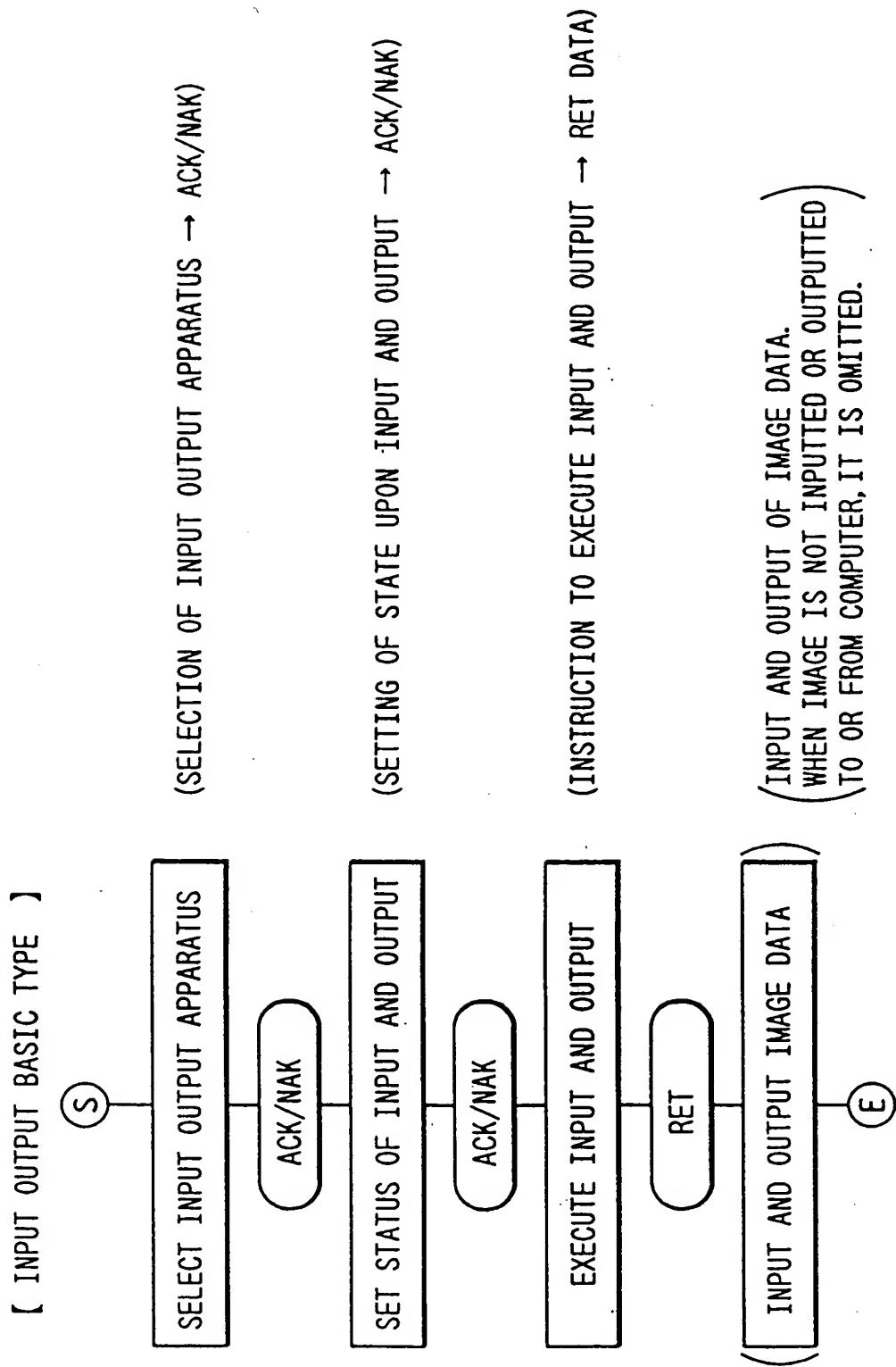
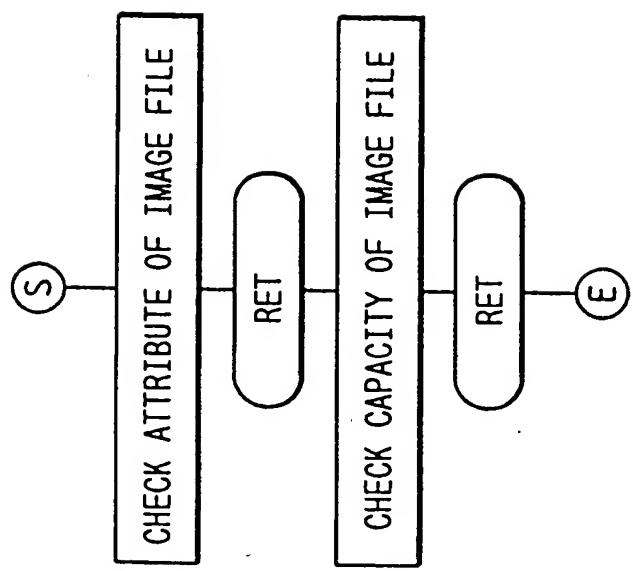


FIG. 82



CHECKING OF FILE ATTRIBUTE AND OF EXISTENCE
OF DESIGNATION FILE NAME OF IMAGE FILE → RET DATA

CHECKING OF REMAINING CAPACITY OF IMAGE FILE → RET DATA

FIG. 83

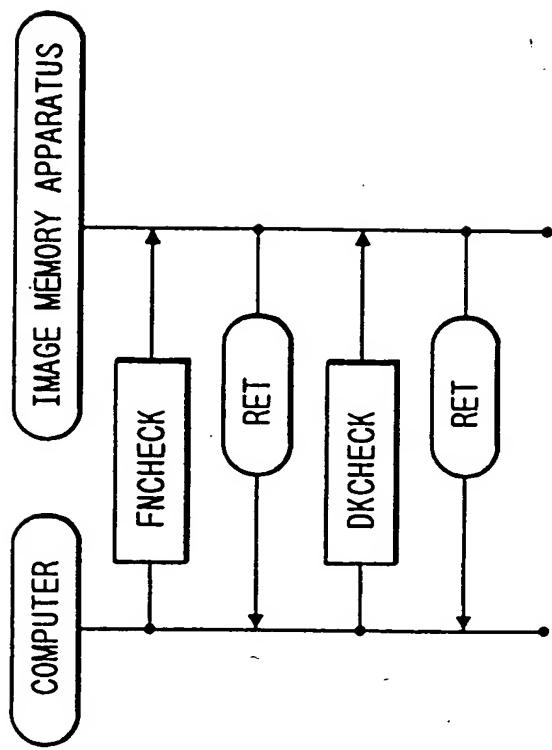


FIG. 84

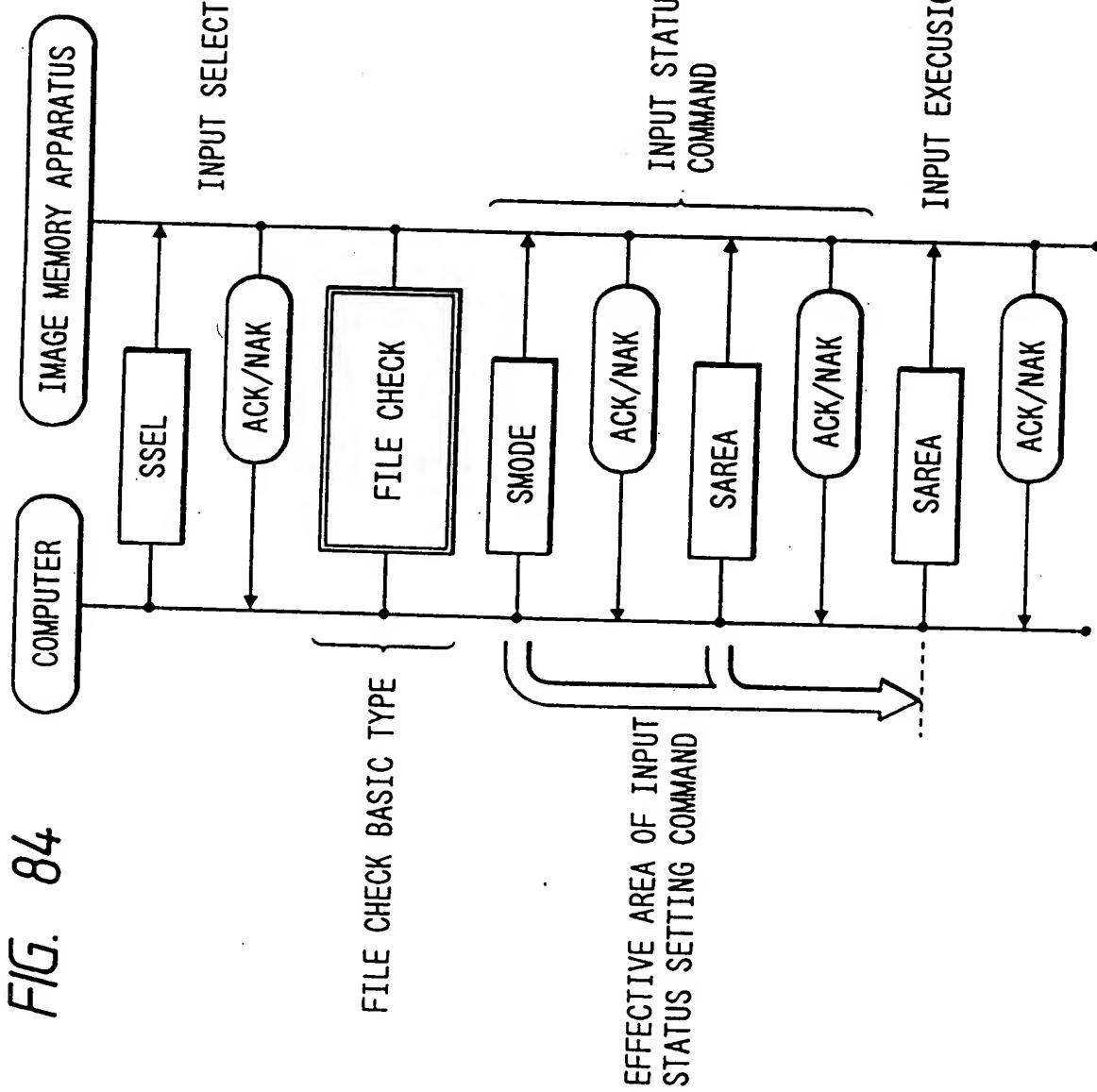


FIG. 85

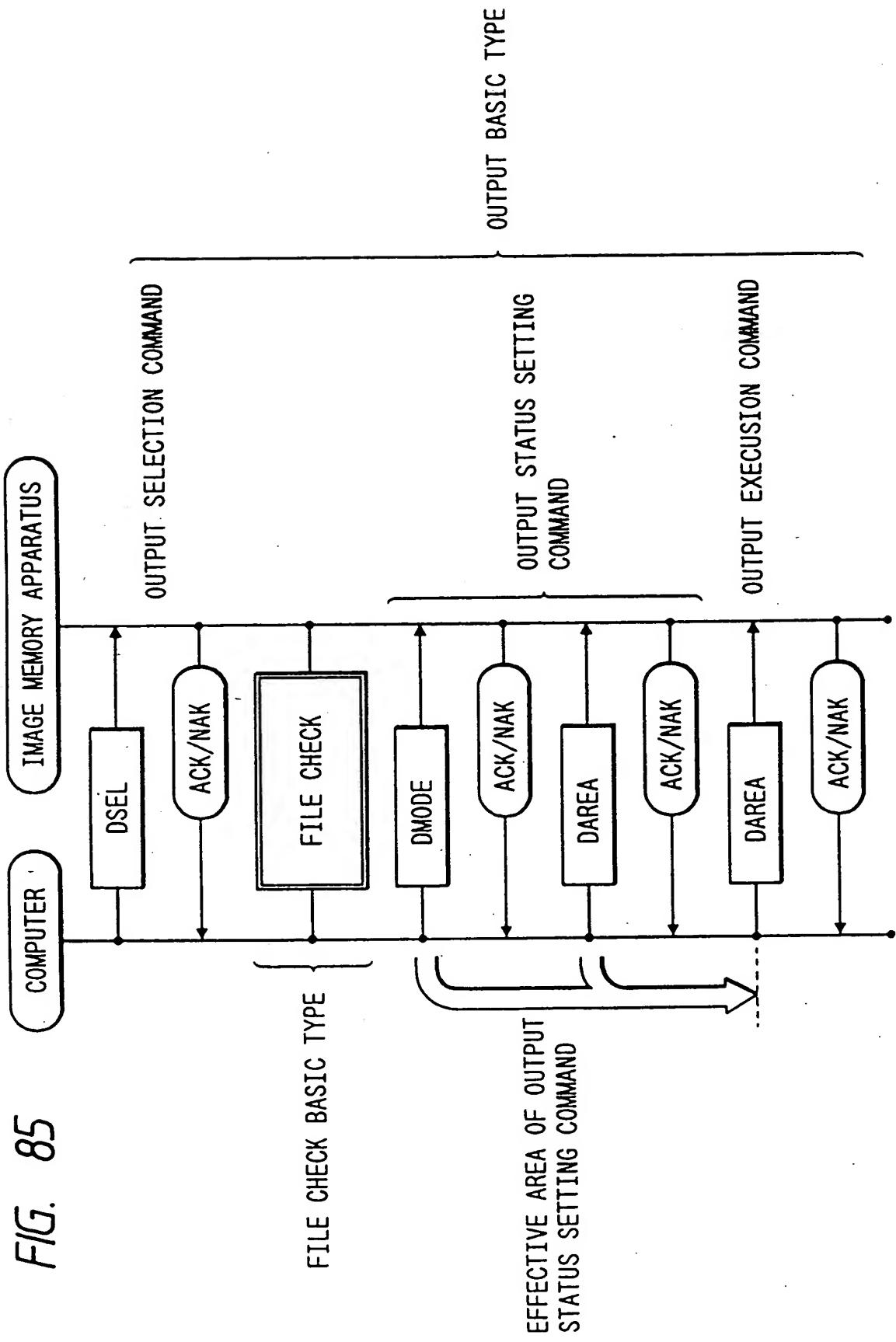


FIG. 86

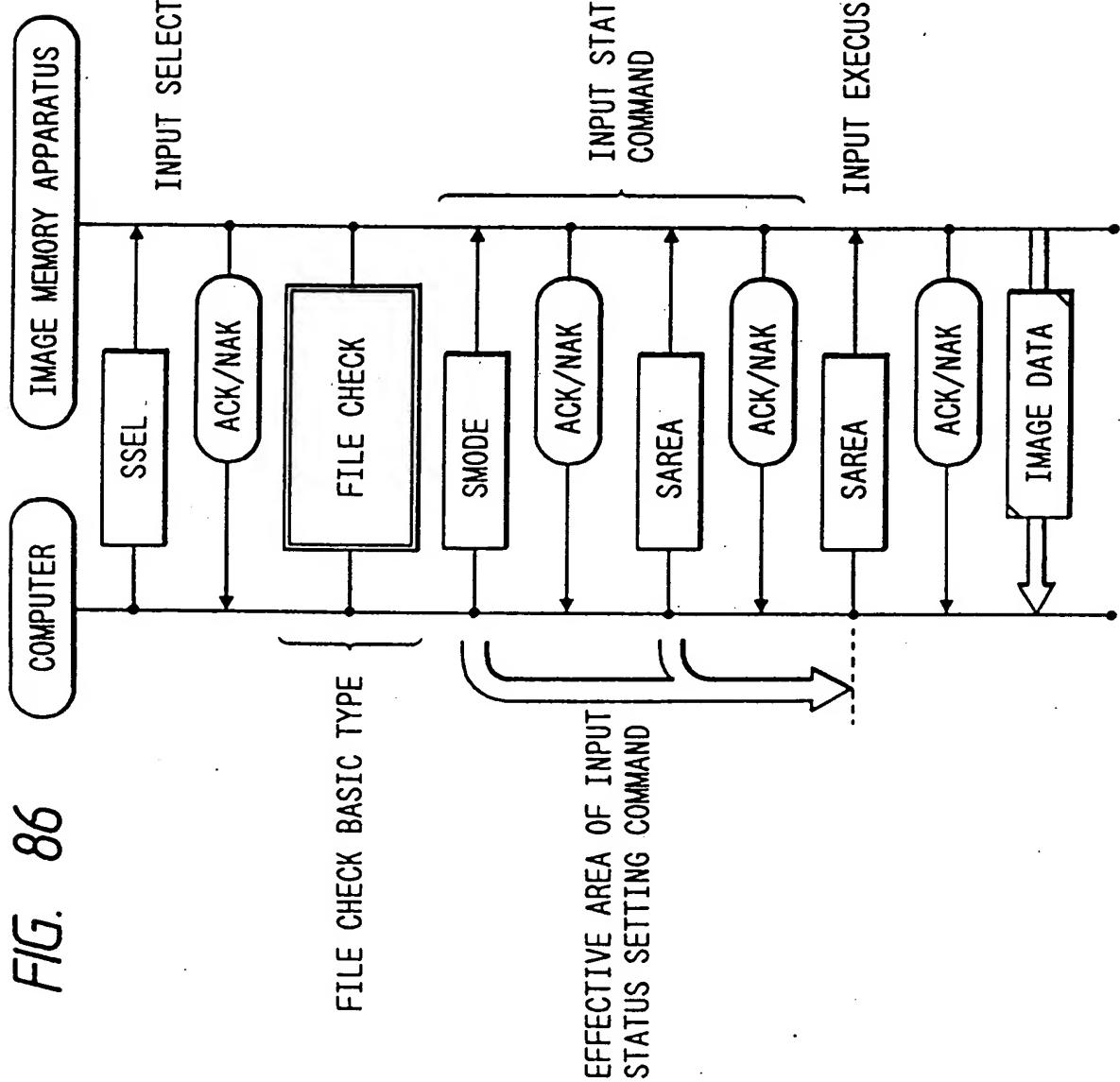


FIG. 87

COMPUTER IMAGE MEMORY APPARATUS

OUTPUT SELECTION COMMAND

OUTPUT BASIC TYPE

OUTPUT STATUS SETTING
COMMAND

OUTPUT EXECUTION COMMAND

FILE CHECK BASIC TYPE

EFFECTIVE AREA OF OUTPUT
STATUS SETTING COMMAND

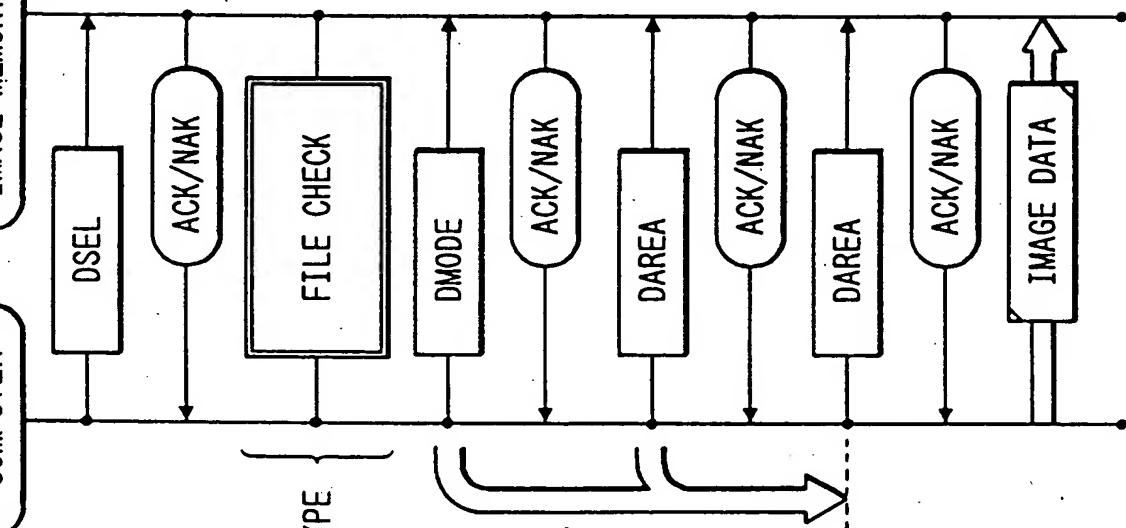


FIG. 88

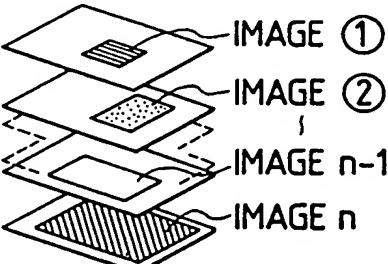
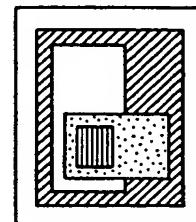
ORDER OF OUTPUT COMMAND	OUTPUT IMAGE	SYNTHESIS OUTPUT IMAGE
MPRINT IMAGE ① MPRINT IMAGE ② : MPRINT IMAGE n-1 PRINT IMAGE n		

FIG. 89

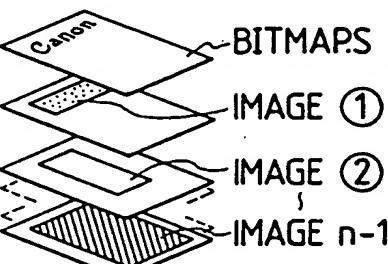
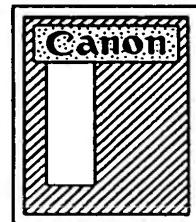
ORDER OF OUTPUT COMMAND	OUTPUT IMAGE	SYNTHESIS OUTPUT IMAGE
MPRINT IMAGE ① MPRINT IMAGE ② : MPRINT IMAGE n-1 PRINT BITMAPS		

FIG. 90

ORDER OF OUTPUT COMMAND	OUTPUT IMAGE	SYNTHESIS OUTPUT IMAGE
MPRINT IMAGE ① MPRINT IMAGE ②		
MPRINT BITMAPS COPY		

FIG. 91

PALETTE NUMBER	R(RED)	G(GREEN)	B(BLUE)
0(00H)	FFH	00H	00H
1(01H)	00H	FFH	00H
2(02H)	00H	00H	FFH
≈	≈	≈	≈
254(FEH)	33H	FFH	33H
255(FFH)	80H	FFH	33H

FIG. 92

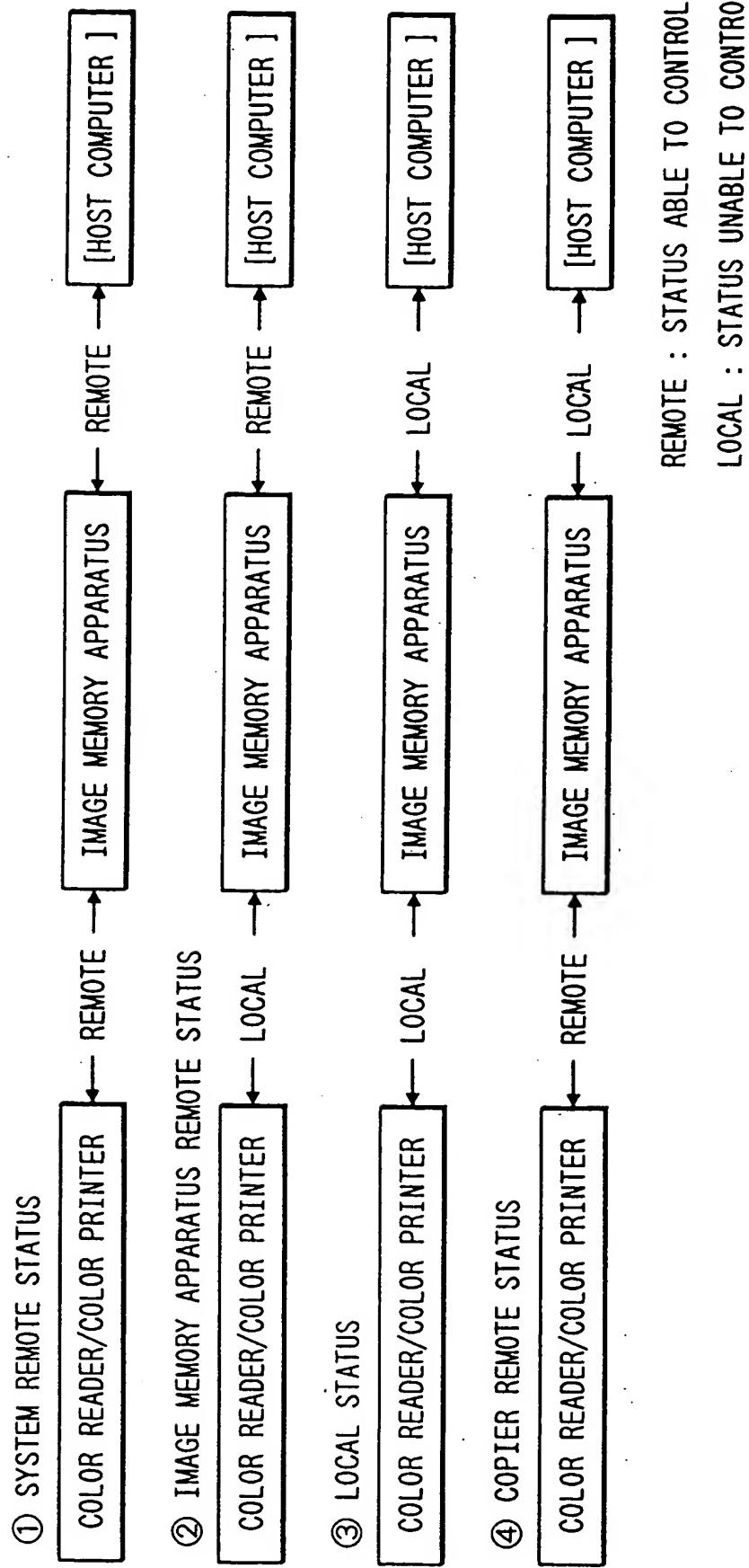
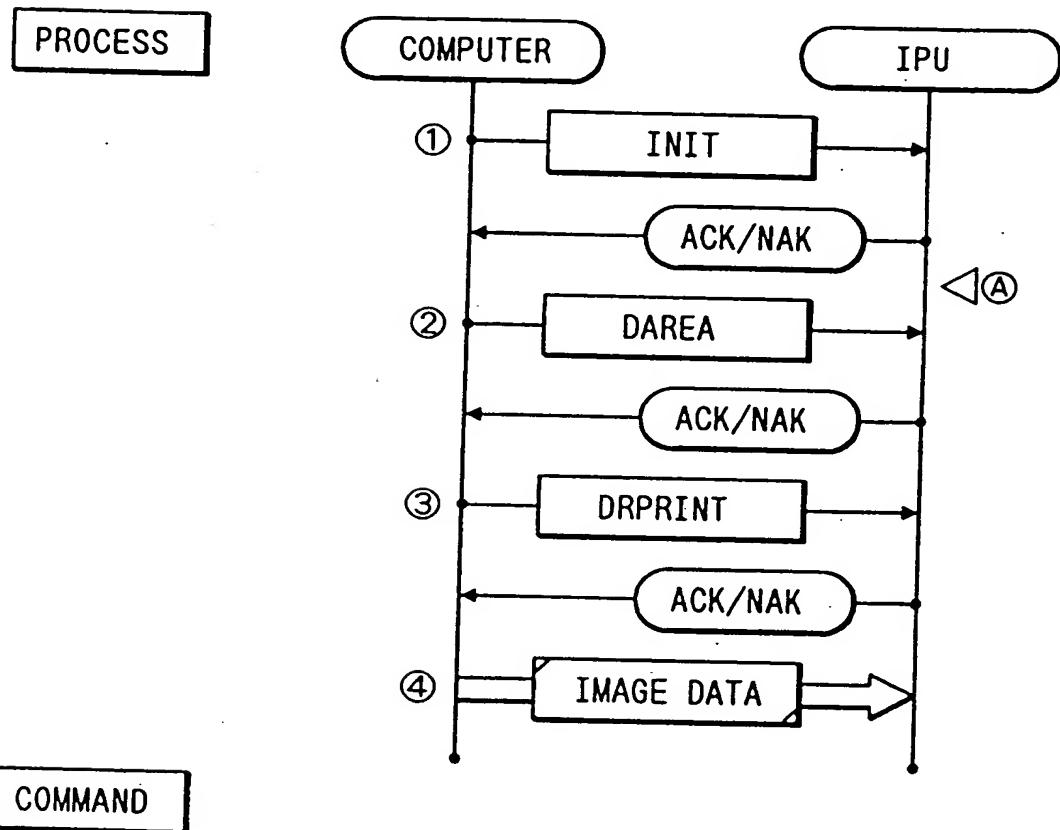
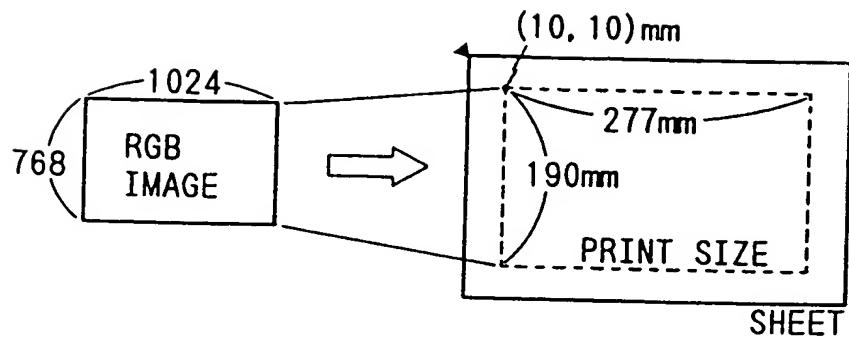


FIG. 93



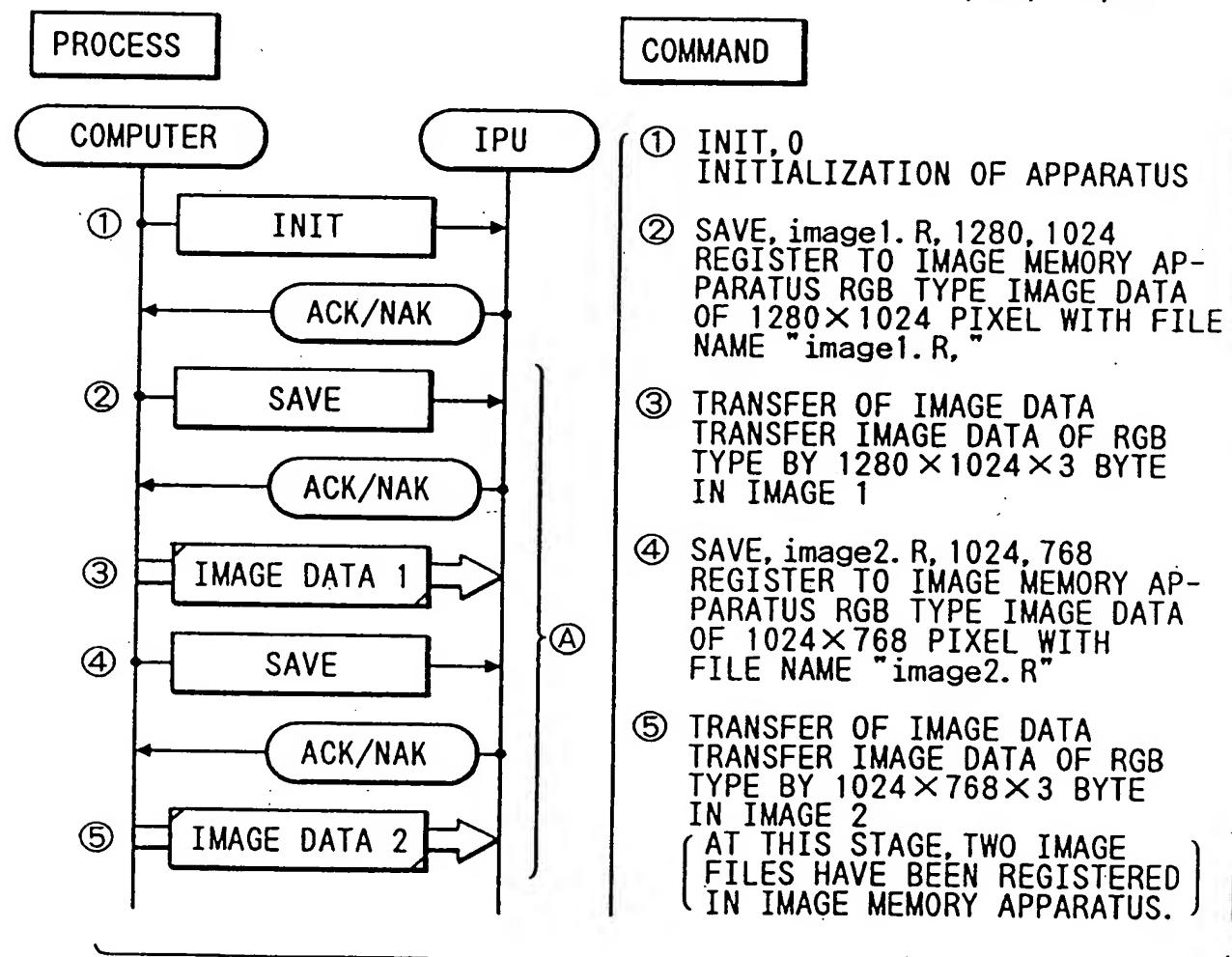
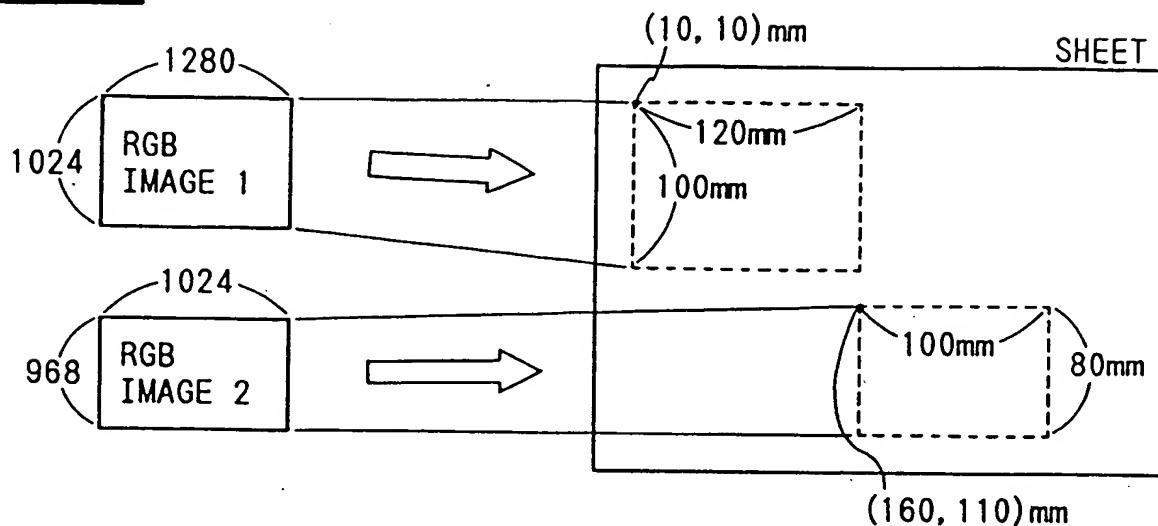
- | | |
|--|--|
| <ul style="list-style-type: none"> ① INIT, 0
INITIALIZATION OF APPARATUS ② DAREA, 6, 10, 277, 190
SET AREA OF 277×190mm FROM LOCATION (10, 10) mm ③ DPRINT, tmp. R, 1024, 768, 1
REGISTER IMAGE OF 1024×768 PIXELS WITH FILE NAME "tmp. R"
TO IMAGE MEMORY APPARATUS 3 AND PRINT IT BY ONE SHEET ④ TRANSFER OF IMAGE DATA
TRANSFER IMAGE DATA OF RGB TYPE BY 1026×768×3 BYTE | |
|--|--|

FIG. 94

FIG. 94A

FIG. 94B

FIG. 94A



TO FIG. 94B

FIG. 94B

FROM FIG. 94A

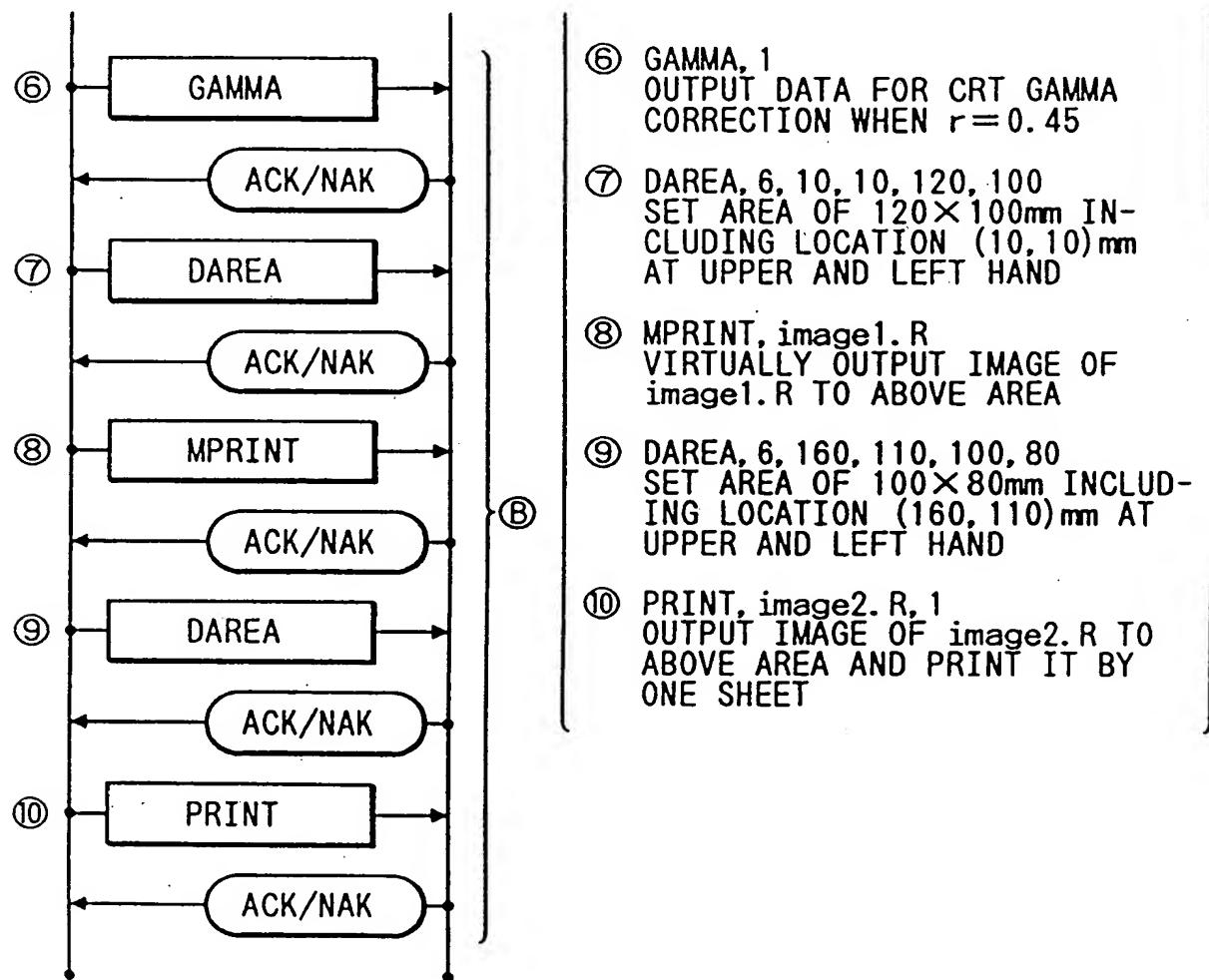


FIG. 95

PROCESS

A REGISTER ALL IMAGE DATA TO IMAGE MEMORY APPARATUS 3,
AND THEN OUTPUT TOGETHER

COMMAND

- ## ① INITIALIZATION OF APPARATUS

INIT, 0

- ## ② REGISTER OF IMAGE DATA TO IMAGE MEMORY APPARATUS 3

SAVE, tmp1.R, 640, 512 REGISTER OF IMAGE DATA tmp1.R

SAVE, tmp2.R, 640, 512 REGISTER OF IMAGE DATA tmp2.R

SAVE, tmp4.R, 640, 512 REGISTER OF IMAGE DATA tmp4.R

- ### ③ OUTPUT FROM IMAGE MEMORY APPARATUS 3 TO PRINTER

DAREA, 6, 10, 10, 60, 50 } MPRINT, tmp1.R } VIRTUAL OUTPUT OF IMAGE DATA tmp1.R

DAREA, 6, 80, 10, 100, 90 }
MPRINT, tmp2.R } VIRTUAL OUTPUT OF IMAGE DATA tmp2.R

DAREA, 6, 10, 100, 80, 70 } VIRTUAL OUTPUT OF IMAGE DATA tmp2.R
PRINT, tmp4, R, 1 } AND PRINTOUT OF ALL VIRTUAL OUTPUTS

FIG. 96

PROCESS

B REGISTER EACH IMAGE DATA TO IMAGE MEMORY APPARATUS
WHILE OUTPUTTING IT

COMMAND

① INITIALIZATION OF APPARATUS

INIT, 0

② REGISTER OF IMAGE DATA AND VIRTUAL OUTPUT

SAVE, tmp1. R, 640, 512

DAREA, 6, 10, 10, 60, 50

MPRINT, tmp1. R

③ REGISTER OF IMAGE DATA tmp4. R AND PRINT OUT OF ALL VIRTUAL
OUTPUTS

SAVE, tmp4. R, 640, 512

DAREA, 6, 10, 100, 80, 70

PRINT, tmp4. R, 1

FIG. 97

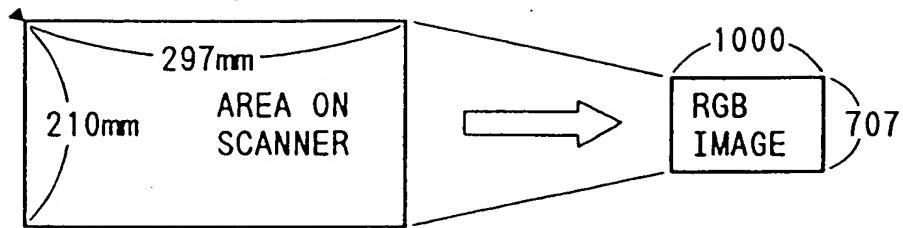


FIG. 98

